<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4748
Met Phe Lys Leu Tyr Ser Ser Leu Ala Arg Met Xaa Asn Thr Cys Ala
1 5 10 15

Leu Lys Ala Asn Arg Glu Arg Val His Asn Ile Leu Gln Xaa Leu Lys
20 25 30

His Asn Leu Xaa His His Leu Pro Leu Ala Asn Ile Pro Ser Gln Leu
35 40 45

Phe Ser Arg Glu Glu Pro Phe Lys Leu Trp Ser Ser Ile Tyr Tyr Phe
50 55 60

His
65

<210> 4749
<211> 27
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4749

Arg Asn Ala Lys Val Gly Xaa Gly Val Val Ala His Ala Cys Gly Pro
1 5 10 15

Gly Cys Leu Gly Gly Trp Xaa Gly Arg Ile Ala
20 25

<210> 4750
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4750
Ser Ser Tyr Ser Lys Ile Ser Leu Arg Asn Ser Ser Lys Val Thr Glu
1 5 10 15

Ser Ala Ser Val Xaa Gln Ser Gln Asp Val Ser Gly Ser Glu Asp Thr
20 25 30

Phe Pro Asn Lys Arg Pro Arg Leu Glu Asp Lys Thr Val Phe Asp Asn
35 40 45

Phe Phe Ile Lys Lys Glu Gln Ile Lys Ser Ser Gly Asn Asp Pro Lys
50 55 60

Tyr Ser Thr Thr Thr Ala Gln Asn Ser Ser Ser Ser Ser Ser Gln Ser
65 70 75 80

Lys Met Val Asn Cys Pro Val Cys Gln Asn Glu Val Leu Glu Ser Gln
85 90 95

Ile Asn Glu His Leu Asp Trp Cys Leu Glu Gly Asp Ser Ile Lys Val
100 105 110

Xaa Ser Glu Glu Ser Leu
115

<210> 4751

<211> 172
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4751

```
Pro Thr Arg Pro Pro Gln Ala Asn Arg Gly Val Val Arg Trp Glu Tyr
  1               5                  10                  15

Phe Arg Leu Arg Pro Leu Arg Phe Arg Ala Pro Ala Leu Arg Leu Gln
             20                  25                  30

Lys Ser Gln Ser Ser Asp Leu Leu Glu Arg Glu Arg Glu Ser Val Leu
         35                  40                  45

Arg Arg Glu Gln Glu Val Xaa Glu Glu Arg Arg Asn Ala Leu Phe Pro
     50                  55                  60

Glu Val Phe Ser Pro Thr Pro Asp Glu Asn Ser Asp Gln Asn Ser Arg
 65                  70                  75                  80

Ser Ser Ser Gln Ala Ser Gly Ile Thr Gly Ser Tyr Ser Val Ser Glu
                 85                  90                  95

Ser Pro Phe Phe Ser Pro Ile His Leu His Ser Asn Val Ala Trp Thr
            100                 105                 110

Val Glu Asp Xaa Val Asp Ser Ala Pro Pro Gly Gln Arg Lys Lys Glu
        115                 120                 125

Gln Trp Tyr Ala Gly Ile Asn Pro Ser Asp Gly Ile Asn Ser Glu Val
    130                 135                 140

Leu Glu Ala Ile Arg Val Thr Arg His Lys Asn Ala Met Ala Glu Arg
145                 150                 155                 160

Trp Glu Ser Arg Ile Tyr Ala Ser Glu Glu Asp Asp
                165                 170
```

<210> 4752

<211> 119
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4752

```
Glu Trp Glu Cys Trp Leu Leu Leu Gln Tyr Trp Ser Leu Tyr Thr Val
  1               5                  10                  15

Leu His Thr Arg Phe Phe Ser Gly Tyr Met Ser Phe Leu Ser Lys Leu
             20                  25                  30

Cys Gly Ser His Glu Glu Thr Ser Asn Gln Gly Lys Gly Glu Gly Leu
         35                  40                  45

Arg His Lys Thr Tyr Leu Tyr Lys Ile Ser Phe Lys Asn Ser Asn Leu
     50                  55                  60

Gly His Val Lys Phe Phe Tyr Ile Phe Ser Cys Leu Asn Leu Ser Ser
 65                  70                  75                  80

Phe Phe Met Leu Cys Ser Ala Arg Lys Cys Gly Glu Met Asp Xaa Gly
                 85                  90                  95

Gly Cys Gly Xaa Asp Arg Trp Leu Gly Ser Thr Cys Leu Cys Leu Phe
            100                 105                 110

Pro Phe Met Cys Ser Cys Val
        115
```

<210> 4753
<211> 193
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4753
Xaa Gly Arg Ala Trp Val Met Ala Ala Pro Gly Ala Leu Leu Val Met
1 5 10 15

Gly Val Ser Gly Ser Gly Lys Ser Thr Val Gly Ala Leu Leu Ala Ser
20 25 30

Glu Leu Gly Trp Lys Phe Tyr Asp Ala Asp Asp Tyr His Pro Glu Glu
35 40 45

Asn Arg Arg Lys Met Gly Lys Gly Ile Pro Leu Asn Asp Gln Asp Arg
50 55 60

Ile Pro Trp Leu Cys Asn Leu His Asp Ile Leu Leu Arg Asp Val Ala
65 70 75 80

Ser Gly Gln Arg Val Val Leu Ala Cys Ser Ala Leu Lys Lys Thr Tyr
85 90 95

Arg Asp Ile Leu Thr Gln Gly Lys Asp Gly Val Ala Leu Lys Cys Glu
100 105 110

Glu Ser Gly Lys Glu Ala Lys Gln Ala Glu Met Gln Leu Leu Val Val
115 120 125

His Leu Ser Gly Ser Phe Glu Val Ile Ser Gly Arg Leu Leu Lys Arg
130 135 140

Glu Gly His Phe Met Pro Pro Glu Leu Leu Gln Ser Gln Phe Glu Thr
145 150 155 160

Leu Glu Pro Pro Ala Ala Pro Glu Asn Phe Ile Gln Ile Ser Val Asp
165 170 175

Lys Asn Val Ser Glu Ile Ile Ala Thr Ile Met Glu Thr Leu Lys Met
180 185 190

Lys

<210> 4754
<211> 194
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (182)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4754
Gln Asp His Gly Ala Trp Leu Arg Gly Gly Asp Val Trp Leu Asp Ser
1 5 10 15

Cys Arg Phe Ala Asp Asn Gly Ile Gly Leu Thr Leu Ala Ser Gly Gly
20 25 30

Thr Phe Pro Tyr Asp Asp Gly Ser Lys Gln Glu Ile Lys Asn Ser Leu
35 40 45

Phe Val Gly Glu Ser Gly Asn Val Gly Thr Glu Met Met Asp Asn Arg
50 55 60

Ile Trp Gly Pro Gly Gly Leu Asp His Ser Gly Arg Thr Leu Pro Ile
65 70 75 80

Gly Gln Asn Phe Pro Ile Arg Gly Ile Gln Leu Tyr Asp Gly Pro Ile
85 90 95

Asn Ile Gln Asn Cys Thr Phe Arg Lys Phe Val Ala Leu Glu Gly Arg
100 105 110

His Thr Ser Ala Leu Ala Phe Arg Leu Asn Asn Ala Trp Gln Ser Cys
115 120 125

Pro His Asn Asn Val Thr Gly Ile Ala Phe Glu Asp Val Pro Ile Thr
130 135 140

Ser Arg Val Phe Phe Gly Glu Pro Gly Pro Trp Phe Asn Gln Leu Asp
145 150 155 160

Met Asp Gly Asp Lys Thr Ser Val Phe His Asp Val Asp Gly Ser Val
165 170 175

Ser Glu Tyr Pro Gly Xaa Tyr Leu Arg Arg Met Thr Thr Gly Trp Ser
180 185 190

Gly Thr

<210> 4755
<211> 500
<212> PRT
<213> Homo sapiens

<400> 4755
Ile Arg His Glu Lys Asp Arg Gly Pro Arg Arg Ser Val Ser Phe Pro
1 5 10 15

```
Arg Ala Leu Ser Gly Asn Met Ala Gly Val Glu Glu Val Ala Ala Ser
            20                  25                  30

Gly Ser His Leu Asn Gly Asp Leu Asp Pro Asp Asp Arg Glu Glu Gly
        35                  40                  45

Ala Ala Ser Thr Ala Glu Glu Ala Ala Lys Lys Lys Arg Arg Lys Lys
    50                  55                  60

Lys Lys Ser Lys Gly Pro Ser Ala Ala Gly Glu Gln Glu Pro Asp Lys
65                  70                  75                  80

Glu Ser Gly Ala Ser Val Asp Glu Val Ala Arg Gln Leu Glu Arg Ser
                85                  90                  95

Ala Leu Glu Asp Lys Glu Arg Asp Glu Asp Asp Glu Asp Gly Asp Gly
            100                 105                 110

Asp Gly Asp Gly Ala Thr Gly Lys Lys Lys Lys Lys Lys Lys Lys Lys
        115                 120                 125

Arg Gly Pro Lys Val Gln Thr Asp Pro Pro Ser Val Pro Ile Cys Asp
    130                 135                 140

Leu Tyr Pro Asn Gly Val Phe Pro Lys Gly Gln Glu Cys Glu Tyr Pro
145                 150                 155                 160

Pro Thr Gln Asp Gly Arg Thr Ala Ala Trp Arg Thr Thr Ser Glu Glu
                165                 170                 175

Lys Lys Ala Leu Asp Gln Ala Ser Glu Glu Ile Trp Asn Asp Phe Arg
            180                 185                 190

Glu Ala Ala Glu Ala His Arg Gln Val Arg Lys Tyr Val Met Ser Trp
        195                 200                 205

Ile Lys Pro Gly Met Thr Met Ile Glu Ile Cys Glu Lys Leu Glu Asp
    210                 215                 220

Cys Ser Arg Lys Leu Ile Lys Glu Asn Gly Leu Asn Ala Gly Leu Ala
225                 230                 235                 240

Phe Pro Thr Gly Cys Ser Leu Asn Asn Cys Ala Ala His Tyr Thr Pro
                245                 250                 255

Asn Ala Gly Asp Thr Thr Val Leu Gln Tyr Asp Asp Ile Cys Lys Ile
            260                 265                 270

Asp Phe Gly Thr His Ile Ser Gly Arg Ile Ile Asp Cys Ala Phe Thr
        275                 280                 285
```

```
Val Thr Phe Asn Pro Lys Tyr Asp Thr Leu Leu Lys Ala Val Lys Asp
    290                 295                 300

Ala Thr Asn Thr Gly Ile Lys Cys Ala Gly Ile Asp Val Arg Leu Cys
305                 310                 315                 320

Asp Val Gly Glu Ala Ile Gln Glu Val Met Glu Ser Tyr Glu Val Glu
                325                 330                 335

Ile Asp Gly Lys Thr Tyr Gln Val Lys Pro Ile Arg Asn Leu Asn Gly
            340                 345                 350

His Ser Ile Gly Gln Tyr Arg Ile His Ala Gly Lys Thr Val Pro Ile
        355                 360                 365

Val Lys Gly Gly Glu Ala Thr Arg Met Glu Glu Gly Glu Val Tyr Ala
    370                 375                 380

Ile Glu Thr Phe Gly Ser Thr Gly Lys Gly Val Val His Asp Asp Met
385                 390                 395                 400

Glu Cys Ser His Tyr Met Lys Asn Phe Asp Val Gly His Val Pro Ile
                405                 410                 415

Arg Leu Pro Arg Thr Lys His Leu Leu Asn Val Ile Asn Glu Asn Phe
            420                 425                 430

Gly Thr Leu Ala Phe Cys Arg Arg Trp Leu Asp Arg Leu Gly Glu Ser
        435                 440                 445

Lys Tyr Leu Met Ala Leu Lys Asn Leu Cys Asp Leu Gly Ile Val Asp
    450                 455                 460

Pro Tyr Pro Pro Leu Cys Asp Ile Lys Gly Ser Tyr Thr Ala Gln Phe
465                 470                 475                 480

Glu His Thr Ile Leu Leu Arg Pro Thr Cys Lys Glu Val Val Ser Arg
                485                 490                 495

Gly Asp Asp Tyr
            500
```

<210> 4756
<211> 76
<212> PRT
<213> Homo sapiens

<400> 4756

```
Ala Leu Ala Ile Ala Glu Lys Ser Gln Glu Phe Leu Glu Ala Asp Asn
 1               5                  10                  15

Arg Gln Leu Pro Asn Gly Val Tyr Thr Thr Ala Glu Gln Arg Pro Asn
            20                  25                  30

Ala Tyr Ile Pro Glu Ala Asp Ala Thr Leu Pro Leu Pro Lys Pro Tyr
        35                  40                  45

Gly Ala Leu Ala Pro Phe Lys Pro Ser Glu Pro Gly Ala Asn Met Arg
    50                  55                  60

His Ile Arg Lys Pro Val Ile Lys Pro Val Glu Ile
65                  70                  75
```

<210> 4757
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4757

```
Met Ala Tyr Thr Ile Pro Val Ile Ile Val Gly Gly Cys Trp Phe Ala
 1               5                  10                  15

Trp Arg His Gln Ser Ser Asp Glu Xaa Ile Asp Tyr Phe Ala Val Ser
            20                  25                  30

Leu Arg Ile Ile Gly Val Leu Ala Leu Ile Leu Thr Ser Cys Gly Leu
        35                  40                  45
```

Ala Ala Ile Asn Ala Asp Xaa Ile Trp Tyr Phe Ala Ser Gly Gly Val
50 55 60

Xaa Gly Ser Leu Leu Ser Thr Xaa Leu Gln Pro Leu Leu His Ser Ser
65 70 75 80

Gly Gly Thr Ile Ala Leu Leu Cys Val Trp Ala Ala Gly Leu Thr Leu
85 90 95

Phe Thr Gly Trp Ser Trp Val Thr Leu Leu Lys Asn Ser Ala Ala Gly
100 105 110

Phe

<210> 4758
<211> 111
<212> PRT
<213> Homo sapiens

<400> 4758
Thr Ile Cys Val Val Arg Gly Ala Thr Ala Ile Ser Ala Glu Leu Gly
1 5 10 15

Gly Ile Ser Thr Thr Phe Leu Ser Ala Glu Ala Phe Pro Pro Thr Leu
20 25 30

Met Leu Phe Asn Ser Val Leu Arg Gln Pro Gln Leu Gly Val Leu Arg
35 40 45

Asn Gly Trp Ser Ser Gln Tyr Pro Leu Gln Ser Leu Leu Thr Gly Tyr
50 55 60

Gln Cys Ser Gly Asn Asp Glu His Thr Ser Tyr Gly Glu Thr Gly Val
65 70 75 80

Pro Val Pro Pro Phe Gly Cys Thr Phe Ser Ser Ala Pro Asn Met Glu
85 90 95

His Val Leu Ala Val Ala Asn Glu Glu Gly Phe Cys Ser Ile Val
100 105 110

<210> 4759
<211> 157
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4759
Ala Gly Glu Arg Asp Gln Gly Arg Arg Arg Gly Glu Ser Arg Glu Gly
1 5 10 15

Trp Ser Phe Gly Glu Ser Leu Trp Lys Met Ala Pro Val Val Thr Gly
20 25 30

Lys Phe Gly Glu Arg Pro Pro Pro Lys Arg Leu Thr Arg Glu Ala Met
35 40 45

Arg Asn Tyr Leu Lys Glu Arg Gly Asp Gln Thr Val Leu Ile Leu His
50 55 60

Ala Lys Val Ala Gln Lys Ser Tyr Gly Asn Glu Lys Arg Phe Phe Cys
65 70 75 80

Pro Pro Pro Cys Val Tyr Leu Met Gly Ser Gly Trp Lys Lys Lys Lys
85 90 95

Glu Gln Met Glu Arg Asp Gly Cys Ser Glu Gln Glu Ser Gln Pro Cys
100 105 110

Ala Phe Ile Gly Xaa Gly Asn Ser Asp Gln Glu Met Gln Gln Leu Asn
115 120 125

Leu Gly Arg Lys Xaa Leu Leu His Ser Gln Thr Leu Tyr Ile Ser Xaa
130 135 140

Ser Ala Ser Glu Asp Phe His Val Val Cys Lys Val Phe
145 150 155

<210> 4760
<211> 60

<212> PRT
<213> Homo sapiens

<400> 4760
Leu Arg Met Cys Glu Lys Leu Thr Glu Pro Asp Ala Cys Cys Tyr Phe
1 5 10 15

Thr Ala Met Ser Leu Phe Leu Ser Thr Leu Lys Ile Phe Phe Leu Phe
20 25 30

Asn Val Val Tyr Phe Gly Leu Arg Asn Asn Cys Ser Val Glu Asn Asn
35 40 45

Pro Leu Ser Glu Lys Lys Val Ala Thr Thr Ser Phe
50 55 60

<210> 4761
<211> 460
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (303)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (305)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (436)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (442)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (444)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (447)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (448)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4761

```
Leu Asp Ala Pro Leu Asp Thr Phe Asn Gly Asn Arg Phe Ala Leu Arg
  1               5                  10                  15

Leu Thr Ala Ile Phe Leu Gln Pro Leu Gly Lys Leu Val Val Arg Ala
             20                  25                  30

Leu His Gly Pro Trp Asn Thr Asp Ser Pro Asp Asn Leu Glu Glu Val
         35                  40                  45

Lys Phe Leu Leu His Met Trp Val Ala Leu Phe Tyr Ser Asn Gln Asn
     50                  55                  60

Lys Ile Ile Arg Ser Ser Arg Lys Val Val Glu His Ser Asn Pro Ala
 65                  70                  75                  80

Lys Tyr Val Ser Ile Asn Ser Thr Leu Glu Ser Cys Glu Leu Arg Glu
                 85                  90                  95

Ile Glu Glu Ser Leu Gly Leu Glu Lys Cys Ser Ala Asp Ser Leu Leu
            100                 105                 110

Glu Thr Asn Glu Ile Ser Arg Ala His Ala Ala Glu Val Ser Phe Arg
        115                 120                 125

Asp Pro Asn Cys Leu Leu Pro Phe Ile Lys Thr Pro Leu Thr Gln Gly
    130                 135                 140

Leu Glu Leu Cys Val Gln Asn Glu Gln Lys Lys Thr Phe Ala Arg Glu
145                 150                 155                 160

Cys Asp Pro Asp Thr Gln Glu Asp Gln Asn Phe Ile Cys Ser Tyr Asn
                165                 170                 175

Asn Glu Val Thr Gly Glu Glu Ala Lys Gln Glu Ser Leu Glu Thr Ser
            180                 185                 190

Asn Leu Val Leu Ser Gly Ile Gly Ser Thr Gln Thr Asn Gly Pro Ser
        195                 200                 205

Val Pro Ser Glu Glu Glu Ile Val Gln Pro Leu Asp Ser Thr Arg Val
    210                 215                 220

Ala Ser Tyr Ser Gly Thr Val Thr Gln Ala Thr Phe Thr Arg Thr Tyr
```

```
225                 230                 235                 240

Asp Gly Pro Gly Ser Gln Pro Val Ile Cys Gln Ser Ser Val Tyr Gly
                245                 250                 255

Thr Leu Glu Asn Lys Val Asp Ile Leu Asp Ala Ala Val Gln Thr Lys
            260                 265                 270

Thr Gly Thr Leu Gln Asp Leu Ile Gln His Gly Ser Pro Ile Asn Asn
        275                 280                 285

Glu Cys His Pro Ser Leu Glu Arg Lys Asp Asp Asn Met Gly Xaa Ala
    290                 295                 300

Xaa Ile Asn Pro Glu Pro Ile Thr Leu Thr Phe Glu Lys Asn Ala His
305                 310                 315                 320

Val Pro Ile Gln Thr Glu Gly Val Asn Thr Ala Asp Glu Pro Thr Thr
                325                 330                 335

Phe Lys Lys Glu Leu Ile Lys Gln Val Ser Pro Ala Ala Ser Leu Arg
            340                 345                 350

His Pro Val Ser Thr Ser Glu Asn Ala Arg Thr Gln Gly Leu Arg Asp
        355                 360                 365

Ile Pro Ser Leu Val Val Ala Gly Gln Lys Gly Thr Lys Tyr Leu Cys
    370                 375                 380

Ala Ser Ser Val Gly Gly Glu Thr Leu Asp Lys Ala Val Cys Ser Leu
385                 390                 395                 400

Gln Lys Glu Thr Pro Leu Pro Val Ser Leu Pro Ser Asp Lys Thr Met
                405                 410                 415

Val Met Glu Ala Leu Ser Leu Ala Lys Ser Ser Ser His Leu Ser Pro
            420                 425                 430

Ser Glu Glu Xaa Arg Cys Thr Gln Asp Xaa Leu Xaa Gln Thr Xaa Xaa
        435                 440                 445

Leu Leu Gly Leu Ser Leu Glu Arg Leu Leu Arg Thr
    450                 455                 460
```

<210> 4762
<211> 72
<212> PRT
<213> Homo sapiens

<400> 4762
Ala Ser Asp Pro Thr Leu Val Leu Ala Pro Gln Gln Trp Leu Pro Leu
1 5 10 15

Thr Leu Ser Arg Arg Trp Leu Gly Gly Gly Tyr Leu Trp Val Ala Gly
20 25 30

Lys Gly Val Gly Arg Phe Arg Met Val Gly Gly Thr Glu Val Pro Glu
35 40 45

Val Lys Arg Pro Leu Val Leu Thr Gly Leu Thr Arg Ala Trp Thr Leu
50 55 60

Gly Ala Val Leu Cys Glu Leu Ala
65 70

<210> 4763
<211> 135
<212> PRT
<213> Homo sapiens

<400> 4763
Trp Glu Pro Thr Phe Phe Gly Phe Ser Gly Glu His Asn Ser Lys His
1 5 10 15

Pro Leu Gly Ser His Met Tyr Arg Asn Gly Thr Gln Leu Gly His Ser
20 25 30

His Gly Leu Pro Arg Pro Gly Met Cys Gly Ala Lys Trp Gly Gln Gly
35 40 45

Pro Asp Pro Arg Gly Glu Gly Gly Pro Gln Thr Pro Arg Asp Val Ser
50 55 60

Ile Pro Arg Pro Ala Phe Trp Arg His Leu Pro Gly Ala Val Leu Ser
65 70 75 80

Gln Gln Ala Trp Gly Glu Ser Leu Val Tyr Ala Gly Asn Arg Val Gln
85 90 95

Gly Pro Ser Val Pro Pro Ser Ala Leu Thr Trp Ala Met His Pro Leu
100 105 110

Ser Pro Lys His Lys Gln Ala Leu Leu Gln Tyr Gly Ala Arg Thr Gly
115 120 125

Val Pro Ser Val Leu Trp Leu
130 135

<210> 4764
<211> 106
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4764
His Lys Cys Phe Gln Cys Phe Ile Leu Ala Asn Gly Phe Leu Lys Val
1 5 10 15

Ile Lys Pro Phe Gln Arg Asn Trp Ser Asp Lys Thr Phe Phe Leu Val
20 25 30

Cys Leu Asn Lys Ala Ile Ser Glu Ala Leu Leu Ser Lys Met Thr Phe
35 40 45

Leu Ser Phe Phe Lys Thr Asn Leu Leu Leu Leu Glu Thr Phe Cys Thr
50 55 60

Ile Lys Gln Ser Arg Arg Leu Lys Lys Lys Lys Lys Lys Lys Lys Lys
65 70 75 80

Lys Arg Ala Ala Ala Leu Glu Asp Pro Ser Leu Arg Thr Arg Ala Cys
85 90 95

Asp Val Ile Ala Leu Leu Leu Arg Xaa Pro
100 105

<210> 4765
<211> 287
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (286)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4765

```
Ile Arg His Glu Val Cys Arg Val Leu Pro Ala Pro Xaa Leu Ile Gly
  1               5                  10                  15

Ala Met Asp Trp Lys Thr Leu Gln Ala Leu Leu Ser Gly Val Asn Lys
             20                  25                  30

Tyr Ser Thr Ala Phe Gly Arg Ile Trp Leu Ser Val Val Phe Val Phe
         35                  40                  45

Arg Val Leu Val Tyr Val Val Ala Ala Glu Arg Val Trp Gly Asp Glu
     50                  55                  60

Gln Lys Asp Phe Asp Cys Asn Thr Lys Gln Pro Gly Cys Thr Asn Val
 65                  70                  75                  80

Cys Tyr Asp Asn Tyr Phe Pro Ile Ser Asn Ile Arg Leu Trp Ala Leu
                 85                  90                  95

Gln Leu Ile Phe Val Thr Cys Pro Ser Leu Leu Val Ile Leu His Val
            100                 105                 110

Ala Tyr Arg Glu Glu Arg Glu Arg Arg His Arg Gln Lys His Gly Asp
        115                 120                 125

Gln Cys Ala Lys Leu Tyr Asp Asn Ala Gly Xaa Lys His Gly Gly Leu
    130                 135                 140

Trp Trp Thr Tyr Leu Phe Ser Leu Ile Phe Lys Leu Ile Ile Glu Phe
145                 150                 155                 160

Leu Phe Leu Tyr Leu Leu His Thr Leu Trp His Gly Phe Asn Met Pro
                165                 170                 175

Arg Leu Val Gln Cys Ala Asn Val Ala Pro Cys Pro Asn Ile Val Asp
            180                 185                 190

Cys Tyr Ile Ala Arg Pro Thr Glu Lys Lys Ile Phe Thr Tyr Phe Met
        195                 200                 205

Val Gly Ala Ser Ala Val Cys Ile Val Leu Thr Ile Cys Glu Leu Cys
    210                 215                 220

Tyr Leu Ile Cys His Arg Val Leu Arg Gly Leu His Lys Asp Lys Pro
225                 230                 235                 240
```

```
Arg Gly Gly Cys Ser Pro Ser Ser Ser Ala Ser Arg Ala Ser Thr Cys
                245                 250                 255

Arg Cys His His Lys Leu Val Glu Ala Gly Glu Val Asp Pro Asp Pro
            260                 265                 270

Gly Asn Asn Lys Leu Gln Ala Ser Ala Pro Asn Leu Thr Xaa Ile
        275                 280                 285
```

<210> 4766
<211> 90
<212> PRT
<213> Homo sapiens

<400> 4766

```
Cys Thr Pro Phe Leu Tyr Thr Glu Cys Gly Leu Leu Ser Glu Ile Gly
  1               5                  10                  15

Ser Phe Met Val Leu Glu Pro Pro Leu Tyr Ser Cys Leu Lys Phe Pro
             20                  25                  30

Ile Val Thr Glu Asn Ile Gly Cys Lys Ala Pro Gln Ser Pro Gln Val
         35                  40                  45

Pro Ser Val Ser Leu Asn Val Leu Val Pro Ser Arg Lys Ala Ser Ala
     50                  55                  60

Ser Ala Pro Phe Pro Pro Val Pro Ser Pro Arg Ile Met Asn Gly Tyr
 65                  70                  75                  80

Cys Thr Val Lys Thr Val Val Ser Phe His
                85                  90
```

<210> 4767
<211> 121
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4767

```
Xaa Ser Gly Gln Lys Pro Gly Val Leu Ile Leu Pro Ser Val Ser Val
  1               5                  10                  15
```

```
Leu Gly Ser Gly Phe Cys Arg His Pro Leu Thr Ser Ala Glu Leu Leu
            20                  25                  30

Gly Leu Leu Pro Ala His His Ile Ala Tyr Leu Gln Cys Gln Ser Leu
        35                  40                  45

Thr Val Thr Leu Ser Ala Leu Val Ser Leu Ala Glu Pro Arg Cys Pro
    50                  55                  60

Cys Ser Arg Gly Gln Lys Ala Cys Thr Trp Ala Lys Gly Pro Lys Val
65                  70                  75                  80

His Trp Thr Val Gly Lys Thr Pro Asp His His Leu Arg Thr Leu Ser
                85                  90                  95

Gln Asn Gly Lys Phe Thr Arg Thr Pro Phe Leu Ser Leu Cys Glu Ser
            100                 105                 110

Pro Arg Glu Arg His Cys Thr Asp Ile
        115                 120
```

<210> 4768
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4768

```
Phe Arg Asp His Pro Cys Lys Phe Pro Lys Asp Phe Phe Asn Met Val
  1               5                  10                  15

Leu Leu Ile Gln Ser Gly Gln Leu Asn Leu Lys Ser Thr Pro Xaa Lys
            20                  25                  30

Pro Ser Gly Val Asp Asn Lys Ala His Lys Leu Arg Gln Phe Ser Phe
```

35 40 45

Leu Xaa Pro Phe Arg Xaa Gly Thr Thr Thr Gly Ser
50 55 60

<210> 4769
<211> 78
<212> PRT
<213> Homo sapiens

<400> 4769
Val Cys Asn Lys Ile Val Glu Ser Cys Met Ile Lys Ser Leu Leu Cys
1 5 10 15

Ser Glu Ile His Ser Asp Phe Leu Val Ser Pro Tyr Ile Ile Cys Ile
20 25 30

Leu Val Phe Phe Leu Thr Leu Leu Pro Leu Leu Pro Asn Arg Asp Leu
35 40 45

Asn Leu Ser Leu Phe Ser Ser Ser Arg Pro Gly Leu Val Pro Asp Ser
50 55 60

Ser Lys Asn Leu Asp Ser Lys Ala Tyr Phe Ile Val Cys Leu
65 70 75

<210> 4770
<211> 36
<212> PRT
<213> Homo sapiens

<400> 4770
Gln Ala Arg Ile His Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
1 5 10 15

Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
20 25 30

Ser Ala Arg Asp
35

<210> 4771
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4771
Gly Ile Ser Phe Thr Leu Thr His Phe Ala Pro Leu Pro Phe Cys Tyr
1 5 10 15

Lys Tyr Tyr His Gly Met Lys Gln Lys Ala Cys Tyr Leu Pro Phe His
20 25 30

Asp His Phe Ala Asp Thr Val Ser Ala Thr Ser Lys Pro Ser Asn Ser
35 40 45

Met Asn Ser Arg Thr Asp Leu Asn Val Val Cys Val Gln Gly Ser Tyr
50 55 60

Xaa Asn Phe Leu Asn Leu Lys Cys His Gln Lys Thr Phe Cys Ser Leu
65 70 75 80

Leu Leu Leu Phe Phe Phe Phe
85

<210> 4772
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4772
Val Trp Leu Ala Leu Ser Val Val Gly Ser Val Tyr Thr Pro Pro Phe
1 5 10 15

Ser Ser Leu Gly Val Phe Phe Arg Asn Pro Lys Ala Thr Leu Arg Ala
20 25 30

Val Leu Thr Phe Leu Ser Thr Val Asp Tyr Pro Cys Leu Leu Gly Gly
35 40 45

Leu Xaa Met Gly Gln Arg Trp Arg Ser Pro Ser Gly
50 55 60

<210> 4773
<211> 62
<212> PRT
<213> Homo sapiens

<400> 4773
Lys Lys Lys Ser Phe Ser Glu Gly Glu Lys Ile Val Trp Val Trp Pro
1 5 10 15

Leu His Ile Leu Ala Asn Tyr Val Ala Ile Phe Met Ala Ser Val Ile
20 25 30

Lys Thr Leu Leu Leu Gly Ser Arg Ala Val Val Leu Asp Ser Leu His
35 40 45

Ser Ala His Leu Leu Lys Ser His Glu Ser Ser Leu Glu Ser
50 55 60

<210> 4774
<211> 87
<212> PRT
<213> Homo sapiens

<400> 4774
Thr Ala Gln Gly Ile Gly Cys Thr Lys Leu Val Leu Lys Leu Leu Leu
1 5 10 15

Gly Ser Pro Gly Ala His Val Ser His Leu Leu Pro Ile His Ile Ser
20 25 30

Ala His Leu Ala Glu Ala Phe Pro Asp Leu Thr Ser Asp Asn Val His
35 40 45

Val Met Asn Thr Pro Lys Trp Leu Gly Leu Leu His Leu Ser Arg Trp
50 55 60

Ile Leu Pro Gln His Trp Gly Phe Leu Trp Ala Val His His Gly Tyr
65 70 75 80

Ile Ser Gly Phe Gln Asp Cys
85

<210> 4775
<211> 70
<212> PRT
<213> Homo sapiens

<400> 4775
Ala Lys Cys Met Leu Lys His Val Phe Thr Ser Val Lys Ser Phe Val
1 5 10 15

Asp Leu Leu Glu Met Lys Gly Phe Tyr Leu Asp Thr Val Ser Tyr Thr
20 25 30

Ser Leu Thr Ile Ile Phe Val Ile Val Val Phe Cys Lys Gln Lys Cys
35 40 45

Leu Trp Ala Ser Cys Arg Leu Lys Ile Val Gly Lys Asn Gly Leu Ser
50 55 60

Ser Gly Pro Phe Lys Gln
65 70

<210> 4776
<211> 128
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4776
Leu Asn Gln Met Ile Leu Thr Tyr Tyr Glu Gly Glu Glu Val Asn Ala
1 5 10 15

Gly Arg Ile Gly Leu Thr Leu Val Val Ala Gly Met Val Gly Ser Ile
20 25 30

Leu Cys Gly Leu Trp Leu Asp Tyr Thr Lys Thr Tyr Asn Phe Phe Met
35 40 45

Thr Gly Tyr Leu Pro Leu Gly Phe Glu Phe Ala Val Glu Ile Thr Tyr
50 55 60

```
Pro Glu Ser Glu Gly Thr Ser Ser Gly Leu Leu Asn Ala Ser Ala Gln
 65                  70                  75                  80

Ile Phe Gly Ile Leu Phe Thr Leu Ala Gln Gly Lys Leu Thr Ser Xaa
                 85                  90                  95

Tyr Gly Pro Lys Ala Gly Asn Ile Xaa Leu Cys Val Trp Met Phe Ile
            100                 105                 110

Xaa Ile Ile Leu Thr Ala Leu Ile Lys Ser Asp Leu Arg Asp Thr Thr
        115                 120                 125
```

<210> 4777
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4777

```
Thr Asn Asp Tyr Lys Val Ser Val Gly Leu Trp Phe Arg Gly Pro Ser
  1               5                  10                  15

Xaa Ser Phe Leu Phe Pro Leu Ala Leu Met Arg Glu Met Pro Ser Ser
             20                  25                  30

Val Trp Ile Phe Leu Gly Ala Leu Trp Arg Asn Gly Val Cys Val Leu
         35                  40                  45

Thr Glu Glu Ser Gln Lys Xaa Glu Thr Ile Phe Ile Tyr Cys His His
     50                  55                  60
```

Lys Tyr Ser Pro Pro Phe Lys Met Pro Val Tyr Thr Ala Ile Trp Glu
65 70 75 80

Thr Xaa Val Leu Glu Glu Ala Gly Ala Glu Gly Val Lys Thr Ser Ser
85 90 95

Val Gly

<210> 4778
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4778
Lys Gly Leu Phe Leu His Ile Tyr Ile Ile Tyr Val Tyr Ile Tyr Asn
1 5 10 15

Ile Tyr Met Xaa Ile Tyr Ile Ile Tyr Ile Tyr Tyr Ile Tyr Asn Ile
20 25 30

Tyr Ile Lys Tyr Ile Tyr Ile Cys Ser Pro Leu Ser Ala Ser Leu Ser
35 40 45

Gln Gly Xaa Ser Val Gly Xaa Cys Leu Gly Pro Ala Ser Leu Leu Thr
50 55 60

Ser Ser Ser Pro Leu Gly Thr Leu Ser Pro Tyr Ile Leu Ile Leu Asp
65 70 75 80

His Val Xaa Asn Cys Phe Trp Val Asn Val Asp Ile Ile Val Ile Ile
85 90 95

Ile Ile Asn

<210> 4779
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4779
Gly Phe Lys Ile Gly Arg Lys Cys Ser Ser Gly Lys Met Cys Ala Val
1 5 10 15

Gln Lys Thr His Lys Phe Phe Arg Lys Gln Leu Gly Pro Val Xaa Val
20 25 30

Asp Gln Ile Glu Ser Pro Arg Ile Leu Gly Ser Ser Xaa Leu Met Asn
35 40 45

Gly Phe Trp Leu Ile Leu Pro Val Leu Gln Phe Leu Leu Leu Cys Glu
50 55 60

Met Gly Asn Thr Leu Ser Ala Ser Leu Arg Cys His Gly Asn Lys Gln
65 70 75 80

Asn

<210> 4780
<211> 95
<212> PRT
<213> Homo sapiens

<400> 4780

```
Ser Thr Leu Arg Pro Ala Ala Gly Lys Glu Trp Glu Gln Trp Leu Ser
  1               5                  10                  15

Ala Ile Arg Ser Gly Ser Met Gly Gln Trp Leu Asp Phe Cys Pro Arg
             20                  25                  30

Pro Glu Glu Cys Ala Val Leu Ala Ser Val Ser Pro Pro Val Ala Leu
         35                  40                  45

Val Gln Glu Pro Thr Val Gly Cys Ser Leu Pro Gly Pro Leu Leu Leu
     50                  55                  60

Trp Ile Leu Pro Thr Pro Ser Cys Ser Trp Gly Arg Pro Phe Ser Gln
 65                  70                  75                  80

Arg Ser Leu Asn Lys Pro Lys Asn Pro Gln Lys Lys Lys Lys Lys
                 85                  90                  95
```

<210> 4781
<211> 51
<212> PRT
<213> Homo sapiens

<400> 4781

```
Phe Ile Cys Thr Thr Phe Phe Arg Val Ala Ala Arg Thr Asn Leu Cys
  1               5                  10                  15

Ala Leu Lys Cys Tyr Leu Leu Leu Ser Val Pro Lys Tyr Arg Glu Ile
             20                  25                  30

Met Leu Gln Ile Ser Leu Leu Leu Asn Ile Met Leu Pro Asp Ala Phe
         35                  40                  45

Ser Arg His
     50
```

<210> 4782
<211> 455
<212> PRT
<213> Homo sapiens

<400> 4782

```
Ser Asp Leu Leu Phe Leu Asn Tyr Arg Gln Leu Phe Gly Glu Glu Asp
  1               5                  10                  15

Ala Asp Gln Glu Val Ser Pro Asp Arg Ala Asp Pro Glu Ala Ala Trp
             20                  25                  30
```

```
Glu Pro Thr Glu Ala Glu Ala Arg Ala Arg Ala Ser Asn Glu Asp Gly
         35                  40                  45

Asp Ile Lys Arg Ile Ser Thr Lys Glu Trp Ala Lys Ser Thr Gly Tyr
     50                  55                  60

Asp Pro Val Lys Leu Phe Thr Lys Leu Phe Lys Asp Asp Ile Arg Tyr
 65                  70                  75                  80

Leu Leu Thr Met Asp Lys Leu Trp Arg Lys Arg Lys Pro Pro Val Pro
                 85                  90                  95

Leu Asp Trp Ala Glu Val Gln Ser Gln Gly Glu Glu Thr Asn Ala Ser
            100                 105                 110

Asp Gln Gln Asn Glu Pro Gln Leu Gly Leu Lys Asp Gln Gln Val Leu
        115                 120                 125

Asp Val Lys Ser Tyr Ala Arg Leu Phe Ser Lys Ser Ile Glu Thr Leu
    130                 135                 140

Arg Val His Leu Ala Glu Lys Gly Asp Gly Ala Glu Leu Ile Trp Asp
145                 150                 155                 160

Lys Asp Asp Pro Ser Ala Met Asp Phe Val Thr Ser Ala Ala Asn Leu
                165                 170                 175

Arg Met His Ile Phe Ser Met Asn Met Lys Ser Arg Phe Asp Ile Lys
            180                 185                 190

Ser Met Ala Gly Asn Ile Ile Pro Ala Ile Ala Thr Thr Asn Ala Val
        195                 200                 205

Ile Ala Gly Leu Ile Val Leu Glu Gly Leu Lys Ile Leu Ser Gly Lys
    210                 215                 220

Ile Asp Gln Cys Arg Thr Ile Phe Leu Asn Lys Gln Pro Asn Pro Arg
225                 230                 235                 240

Lys Lys Leu Leu Val Pro Cys Ala Leu Asp Pro Pro Asn Pro Asn Cys
                245                 250                 255

Tyr Val Cys Ala Ser Lys Pro Glu Val Thr Val Arg Leu Asn Val His
            260                 265                 270

Lys Val Thr Val Leu Thr Leu Gln Asp Lys Ile Val Lys Glu Lys Phe
        275                 280                 285

Ala Met Val Ala Pro Asp Val Gln Ile Glu Asp Gly Lys Gly Thr Ile
    290                 295                 300
```

```
Leu Ile Ser Ser Glu Glu Gly Glu Thr Glu Ala Asn Asn His Lys Lys
305                 310                 315                 320

Leu Ser Glu Phe Gly Ile Arg Asn Gly Ser Arg Leu Gln Ala Asp Asp
                325                 330                 335

Phe Leu Gln Asp Tyr Thr Leu Leu Ile Asn Ile Leu His Ser Glu Asp
            340                 345                 350

Leu Gly Lys Asp Val Glu Phe Glu Val Val Gly Asp Ala Pro Glu Lys
        355                 360                 365

Val Gly Pro Lys Gln Ala Glu Asp Ala Ala Lys Ser Ile Thr Asn Gly
    370                 375                 380

Ser Asp Asp Gly Ala Gln Pro Ser Thr Ser Thr Ala Gln Glu Gln Asp
385                 390                 395                 400

Asp Val Leu Ile Val Asp Ser Asp Glu Glu Asp Ser Ser Asn Asn Ala
                405                 410                 415

Asp Val Ser Glu Glu Glu Arg Ser Arg Lys Arg Lys Leu Asp Glu Lys
            420                 425                 430

Glu Asn Leu Ser Ala Lys Arg Ser Arg Ile Glu Gln Lys Glu Glu Leu
        435                 440                 445

Asp Asp Val Ile Ala Leu Asp
    450                 455
```

<210> 4783
<211> 78
<212> PRT
<213> Homo sapiens

<400> 4783

```
Lys His Arg Tyr Leu Val Leu Thr Gly Cys Ala Trp Leu Thr Gln Val
  1               5                  10                  15

His Leu Pro His Gly Lys Ser Ser Ser Lys Pro Leu His Asp Leu Trp
             20                  25                  30

Gly Ala Gly Ser Gln Phe Val Ala Cys Asp Leu Pro Gln Pro Gln Lys
         35                  40                  45

Ile Arg Asp His Glu Ala Pro Pro Pro Pro Gly Ser Gly Asn Leu Ile
     50                  55                  60
```

```
His Ile Ala Arg Ala Leu Pro Val Arg Leu Trp Met Leu Thr
 65                  70                  75
```

<210> 4784
<211> 102
<212> PRT
<213> Homo sapiens

<400> 4784

```
Pro Ser Ser Pro Arg His Ile Ser Pro Arg Met Asn Ala Val Leu Ser
  1               5                  10                  15

Ala His Val Cys Val Glu Ala Ala Lys Val Gly Glu Leu Trp Ser Cys
             20                  25                  30

Pro Asp Pro Phe Gly Ile Ala Gly Pro Ser Ser His Trp Arg Ala Gly
         35                  40                  45

Val Gln Leu Thr Leu Gly Lys Glu Thr Ser Cys Leu Arg Val Ile Ser
     50                  55                  60

Cys Glu Cys Lys Ala Trp Gly Ser Gly Ser Leu Gly Gly Lys Glu Pro
 65                  70                  75                  80

Val Arg Gly Leu Phe Pro Leu Ile Glu Leu Pro Arg Arg Ala Ser Ala
                 85                  90                  95

Met Pro Glu Thr Gln Thr
            100
```

<210> 4785
<211> 87
<212> PRT
<213> Homo sapiens

<400> 4785

```
Glu Ile Pro Leu Leu Cys Phe Ala Ser Glu Ser Ser His Pro His Pro
  1               5                  10                  15

Gln Asn Cys Gly Ala Trp Trp Ala Leu Thr Ser Thr Pro Leu Leu Phe
             20                  25                  30

Ser Phe Ile Thr Phe Asp Leu Leu Lys Thr Ser Glu Arg Met Ser Val
         35                  40                  45

Lys Phe Phe Ser Pro Ser Ser Ser Leu Ser Ser Leu Lys Gly Arg Asp
     50                  55                  60
```

Cys Ala Asn Thr Lys Gln Tyr Ser Phe Val Ser Ala Asn Ala Ser Val
65 70 75 80

Asp Ile Pro Ile Gly Ile Lys
85

<210> 4786
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4786
His Lys Glu Phe Xaa Arg Val Ser Gly Lys Lys Lys Lys Lys Lys Lys
1 5 10 15

Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
20 25 30

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
35 40 45

Val Val Leu Gln Arg Arg Asp Trp Xaa Asn Pro Gly Val Thr Gln Leu
50 55 60

<210> 4787
<211> 56
<212> PRT
<213> Homo sapiens

<400> 4787
Asp Thr Val Leu Lys Lys Ile Lys Asn Cys Lys Lys Met Lys Lys Lys
1 5 10 15

Val Leu Ser Ile Ile Cys Ile Ile Gly Ile His Met Ser Leu His Lys
20 25 30

Met Phe Asn Leu Lys Glu Ile Pro Leu Ile Leu Tyr Val Leu Leu Ser
35 40 45

Val Val Cys Phe Ser Phe Ser Tyr
50 55

<210> 4788
<211> 274
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4788
Thr Cys His Cys Leu Pro Pro Pro Pro Ala Arg Ala Met Thr Xaa Xaa
1 5 10 15

Val Pro Arg Leu Ser Val Pro Ala Ala Leu Ala Leu Gly Ser Ala Ala
20 25 30

Leu Gly Ala Ala Phe Ala Thr Gly Leu Phe Leu Gly Arg Arg Cys Pro
35 40 45

Pro Trp Arg Gly Arg Arg Glu Gln Cys Leu Leu Pro Pro Glu Asp Xaa
50 55 60

Arg Leu Trp Gln Tyr Leu Leu Ser Arg Ser Met Arg Glu His Pro Ala
65 70 75 80

Leu Arg Ser Leu Arg Leu Leu Thr Leu Glu Gln Pro Gln Gly Asp Ser
85 90 95

Met Met Thr Cys Glu Gln Ala Gln Leu Leu Ala Asn Leu Ala Arg Leu

```
           100                 105                 110

Ile Gln Ala Lys Lys Ala Leu Asp Leu Gly Thr Phe Thr Gly Tyr Ser
        115                 120                 125

Ala Leu Ala Leu Ala Leu Ala Leu Pro Ala Asp Gly Arg Val Val Thr
    130                 135                 140

Cys Glu Val Asp Ala Gln Pro Pro Glu Leu Gly Arg Pro Leu Trp Arg
145                 150                 155                 160

Gln Ala Glu Ala Glu His Lys Ile Asp Leu Arg Leu Lys Pro Ala Leu
                165                 170                 175

Glu Thr Leu Asp Glu Leu Leu Ala Ala Gly Glu Ala Gly Thr Phe Asp
            180                 185                 190

Val Ala Val Val Asp Ala Asp Lys Glu Asn Cys Ser Ala Tyr Tyr Glu
        195                 200                 205

Arg Cys Leu Gln Leu Leu Arg Pro Gly Gly Ile Leu Ala Val Leu Arg
    210                 215                 220

Val Leu Trp Arg Gly Lys Val Leu Gln Pro Pro Lys Gly Asp Val Ala
225                 230                 235                 240

Ala Glu Cys Val Arg Asn Leu Asn Glu Arg Ile Arg Arg Asp Val Arg
                245                 250                 255

Val Tyr Ile Ser Leu Leu Pro Leu Gly Asp Gly Leu Thr Leu Ala Phe
            260                 265                 270

Lys Ile
```

<210> 4789
<211> 177
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

```
<400> 4789
Tyr Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
  1               5                  10                  15
```

```
Gly Ser Thr His Ala Ser Gly Ser Arg Phe Gln Ala Ser Ser Gln Leu
            20                  25                  30

Arg Ala Gly Ser Trp Arg Pro Arg Pro Leu Pro Pro Val Val Pro Ala
        35                  40                  45

Val Pro Asp Gly Ser Ala Met Ala Gln Pro Pro Pro Asp Val Glu Gly
    50                  55                  60

Asp Asp Cys Leu Pro Ala Tyr Arg His Leu Phe Cys Pro Asp Leu Leu
65                  70                  75                  80

Arg Asp Lys Val Ala Phe Ile Thr Gly Gly Gly Ser Gly Ile Gly Phe
                85                  90                  95

Arg Ile Ala Glu Ile Phe Met Arg His Gly Cys His Thr Val Ile Ala
            100                 105                 110

Ser Arg Ser Leu Pro Arg Val Leu Thr Ala Ala Arg Lys Leu Ala Gly
        115                 120                 125

Ala Thr Gly Arg Arg Cys Leu Pro Leu Ser Met Asp Val Arg Xaa Pro
    130                 135                 140

Pro Ala Val Met Ala Ala Val Asp Gln Ala Leu Lys Glu Phe Gly Arg
145                 150                 155                 160

Ile Asp Ile Leu Ile Asn Cys Ala Ala Gly Asn Phe Leu Cys Pro Ala
                165                 170                 175

Gly
```

<210> 4790
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4790

```
Xaa His Leu His Pro Leu Pro Phe Gln Ser Phe Ala Ser Pro Pro His
  1               5                  10                  15

Leu Ala Ile Lys Leu His Glu Asp Phe Ser Ser Ser Gly Ser Ala Trp
            20                  25                  30
```

Asn Leu Ser Tyr Ile Leu Pro Phe Pro Thr Cys Ser Leu Glu Cys Pro
35 40 45

Phe His Lys Tyr Ala Pro Thr Ala Gly Ser Ile Phe Phe Ser Phe Arg
50 55 60

His Leu
65

<210> 4791
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4791
Ala Ile Ser Xaa Val Arg Thr Ser Asn Ser Pro Ile Leu Ser Tyr Val
1 5 10 15

Xaa Ser Asn Lys Leu His His Leu Leu Thr Gly Phe Phe Ile Ser Val
20 25 30

Ile Ile Val Phe Ile Ser Arg Tyr Ser Ile Cys Leu Lys Asn Ile Cys
35 40 45

Met Ile Leu His Gly Phe Asn Ser Pro Asp Glu Tyr Xaa Ala Phe Asn
50 55 60

His Pro Ser Thr
65

<210> 4792

<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4792
Thr Xaa Phe Phe Leu Met Lys Cys Ile Val Phe Pro Leu Ala Leu Lys
1 5 10 15

Xaa His Ile Trp Cys Gln Ala Val Leu Leu Xaa Leu Thr Gly Glu Trp
20 25 30

Gln Leu Cys Leu Leu Ser Ala Ser Pro Ala Val Pro Ala Val Ser Gly
35 40 45

Thr Cys Ile Met Thr Arg Leu His Phe Pro Pro Ile Xaa Xaa Gln Arg
50 55 60

Phe Trp Glu Glu Glu Cys Asp Cys Met Ala Arg Ser Leu Gln Pro Gln
65 70 75 80

Ser Ala Ala Cys

<210> 4793

<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4793
Gly Ser Val Leu His His Pro His Ala Thr Pro Thr Thr His Arg Cys
1 5 10 15

Thr Ala Thr Val Thr Gly Ala Ser Cys Leu Arg Met Gly Leu Arg Val
20 25 30

Ile Asn Phe Phe Lys Gly Tyr Ile Xaa Ile Ala Tyr Xaa Ile Gln Ile
35 40 45

Lys Gly Pro Glu Phe Xaa Ala Asn Cys Thr Tyr Leu Phe Ala Asn Leu
50 55 60

Xaa His His Arg Lys Pro Lys Asp Ser Xaa Cys Gly Gln Ser Phe Thr
65 70 75 80

Leu Gln Ser Leu Lys Tyr Phe Phe
85

<210> 4794

<211> 26
<212> PRT
<213> Homo sapiens

<400> 4794
Arg Ser Ser Leu Phe His Gln Ala Gly Val Gln Trp His Asp Leu Ser
1 5 10 15

Ser Leu Gln Ser Pro Pro Pro Gln Phe Lys
20 25

<210> 4795
<211> 404
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (310)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4795
Ile Asp Arg Glu Leu Ser Pro Glu Gly Pro Gly Lys Glu Lys Glu Leu
1 5 10 15

Pro Gly Gln Thr Leu His Trp Gly Pro Glu Ala Thr Glu Ala Ala Gly
20 25 30

Arg Gly Leu Gln Pro Leu Lys Leu Asp Tyr Arg Ala Leu Ala Ala Val
35 40 45

Pro Ser Ala Gly Ser Val Gln Arg Val Pro Ser Gly Ala Ala Gly Gly
50 55 60

Lys Met Ala Glu Ser Pro Cys Ser Pro Ser Gly Gln Gln Pro Pro Ser
65 70 75 80

Pro Pro Ser Pro Asp Glu Leu Pro Ala Asn Val Lys Gln Ala Tyr Arg
85 90 95

Ala Phe Ala Ala Val Pro Thr Ser His Pro Pro Glu Asp Ala Pro Ala
100 105 110

Gln Pro Pro Thr Pro Gly Pro Ala Ala Ser Pro Glu Gln Leu Ser Phe
115 120 125

Arg Glu Arg Gln Lys Tyr Phe Glu Leu Glu Val Arg Val Pro Gln Ala
130 135 140

```
Glu Gly Pro Pro Lys Arg Val Ser Leu Val Gly Ala Asp Asp Leu Arg
145                 150                 155                 160

Lys Met Gln Glu Glu Glu Ala Arg Lys Leu Gln Gln Lys Arg Ala Gln
                165                 170                 175

Met Leu Arg Glu Ala Ala Glu Ala Gly Ala Glu Ala Arg Leu Ala Leu
            180                 185                 190

Asp Gly Glu Thr Leu Gly Glu Glu Glu Gln Glu Asp Glu Gln Pro Pro
        195                 200                 205

Trp Ala Ser Pro Ser Pro Thr Ser Arg Gln Ser Pro Ala Ser Pro Pro
    210                 215                 220

Pro Leu Gly Gly Gly Ala Pro Val Arg Thr Ala Lys Ala Glu Arg Arg
225                 230                 235                 240

His Gln Glu Arg Leu Arg Val Gln Ser Pro Glu Pro Pro Ala Pro Glu
                245                 250                 255

Arg Ala Leu Ser Pro Ala Glu Leu Arg Ala Leu Glu Ala Glu Lys Arg
            260                 265                 270

Ala Leu Trp Arg Ala Ala Arg Met Lys Ser Leu Glu Gln Asp Ala Leu
        275                 280                 285

Arg Ala Gln Met Val Leu Ser Arg Ser Gln Glu Gly Arg Gly Thr Arg
    290                 295                 300

Gly Pro Leu Glu Arg Xaa Ala Glu Ala Pro Ser Pro Ala Pro Thr Pro
305                 310                 315                 320

Ser Pro Thr Pro Val Glu Asp Leu Gly Pro Gln Thr Ser Thr Ser Pro
                325                 330                 335

Gly Arg Leu Ser Pro Asp Phe Ala Glu Glu Leu Arg Ser Leu Glu Pro
            340                 345                 350

Ser Pro Ser Pro Gly Pro Gln Glu Glu Asp Gly Glu Val Ala Leu Val
        355                 360                 365

Leu Leu Gly Arg Pro Ser Pro Gly Ala Val Gly Pro Glu Asp Val Ala
    370                 375                 380

Leu Cys Ser Ser Arg Arg Pro Val Arg Pro Gly Arg Arg Gly Leu Gly
385                 390                 395                 400

Pro Val Pro Ser
```

<210> 4796
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4796
Gly Xaa Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu
1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Val Cys Leu Phe Arg
20 25 30

Leu Lys Phe Phe Leu Lys Cys Leu Val Ile Pro Gly Phe Leu Leu Ile
35 40 45

Ile Lys Glu Lys Asn Ala Asp Ser Leu Asp Pro Gly Arg Ala Ser Leu
50 55 60

Pro Asp Cys Arg Leu Ala Ser Gly Ile His Gly Phe Pro Lys Cys
65 70 75

<210> 4797
<211> 97
<212> PRT
<213> Homo sapiens

<400> 4797
Pro Pro Pro Ser Leu Ser Phe Ser Ser Ser Val Phe Leu Leu Ser Ser
1 5 10 15

Phe Phe Pro Ser Pro Ser Ser Ile Ala Thr Phe Ser Pro Thr Arg Thr
20 25 30

Gln Ala Tyr Lys Arg Arg Phe Leu Met Leu Leu Cys Leu Leu Thr Pro
35 40 45

Leu Phe Ser Cys Phe Gln Gln Val Phe Leu Pro Pro Val Pro Gln Leu
50 55 60

Leu Leu Leu Leu Arg Arg Ser Asp Leu Pro Leu Met Val Ile Pro Ala
65 70 75 80

Pro Leu Arg Pro Thr Ser Ala Lys Lys Glu Lys Val Lys Gln Gln Gln
85 90 95

Gln

<210> 4798
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4798
Ala Ser Tyr Tyr Met Xaa Leu His Phe Pro Gln Trp Phe Val His Ser
1 5 10 15

Ser Ala Leu Gly Leu Val Leu Ala Pro Pro Phe Ser Ser Pro Gly Thr
20 25 30

Asp Pro Thr Phe Pro Cys Ile Tyr Cys Arg Leu Leu Asn Met Ile Met
35 40 45

Thr Arg Leu Ala Phe Ser Phe Ile Thr Cys Leu Cys Pro Asn Leu Lys
50 55 60

Glu Val Cys Leu Ile Leu Pro Glu Lys Asn Cys Asn Ser Arg His Ala
65 70 75 80

Gly Phe Val Gly Pro Ala Lys Leu Arg Gln
85 90

<210> 4799
<211> 52
<212> PRT
<213> Homo sapiens

<400> 4799
His Cys Tyr His Ser His Ala Lys His Trp Leu His Thr Cys Ser Leu
1 5 10 15

Phe Val Ile Asn Ile Lys Arg Leu Asp Leu Lys Pro Ser Ile Asn Glu
20 25 30

```
Arg Pro Phe Ile Trp His Ser Trp Asn Lys Thr Leu His Arg Tyr Gln
         35                  40                  45

Pro Leu His Ser
     50
```

<210> 4800
<211> 90
<212> PRT
<213> Homo sapiens

<400> 4800

```
Phe Val Gly Leu Thr Leu Pro Phe Ser Phe Ser Leu Glu Cys Leu Leu
  1               5                  10                  15

Gly Tyr Ala Leu Val Gly Leu Met Ser Phe Leu Gly Leu Gly Gly Val
             20                  25                  30

Cys Val Trp Leu Val Trp Gly Thr Phe Arg Gly Ser Ser Cys Thr Phe
         35                  40                  45

Pro Leu Leu Ser Val Cys Ser Ser Leu His Leu Leu Phe Val Cys Val
     50                  55                  60

His Phe Phe Ser Glu Gln Ser Phe Ser Leu Ala Thr Leu Ser Ser Leu
 65                  70                  75                  80

Thr Val Phe Leu Phe Ser Ser Ser Leu Arg
                 85                  90
```

<210> 4801
<211> 78
<212> PRT
<213> Homo sapiens

<400> 4801

```
Leu Lys Leu Lys Arg Arg Gln Gly Ser Ile Gln Ala Glu Pro Val Leu
  1               5                  10                  15

Val Gln Thr Lys Asn Leu Thr Gly Thr Met Glu Gly Ser Ser Ser Pro
             20                  25                  30

Leu Leu Thr Phe Tyr Val Met Glu Arg Leu Glu Leu Ile Lys Val Leu
         35                  40                  45

Pro Phe Phe Tyr Ser Pro Glu Tyr Gln Arg Gln Leu Lys Ser Ala Thr
     50                  55                  60
```

```
Asn Asp Leu Pro Val Ser Cys Phe Ile Phe Val Ile Asp Phe
 65                  70                  75
```

<210> 4802
<211> 46
<212> PRT
<213> Homo sapiens

<400> 4802

```
Val Pro Ala Thr Thr Pro Gly Gln Tyr Leu Tyr Phe Leu Trp Arg Arg
  1               5                  10                  15

Gly Phe Ala Met Leu Ala Arg Leu Val Ser Asn Tyr Trp Ala Gln Val
             20                  25                  30

Ile His Pro Pro Gln Pro Pro Lys Val Leu Arg Leu Gln Ala
         35                  40                  45
```

<210> 4803
<211> 86
<212> PRT
<213> Homo sapiens

<400> 4803

```
Trp Val Pro Leu Leu Phe Ala Phe Ser Phe Ser Glu Asn Val Cys Val
  1               5                  10                  15

Leu Pro Leu Phe Trp Leu His Leu Gln Asn Ile Ser Phe Val Pro Met
             20                  25                  30

Tyr Met Cys Lys His Ala Ile Ala Cys Val Val Gly Val Leu Tyr Phe
         35                  40                  45

Val Trp Glu Lys Asn Tyr Gln Asn Glu Glu Glu Asn Phe Pro Tyr Leu
     50                  55                  60

Cys Thr Arg Phe Leu Cys Phe Phe Phe Glu Phe Ser Gly Val Asp Ile
 65                  70                  75                  80

Asn Leu Ile Pro Ser Trp
                 85
```

<210> 4804
<211> 71

<212> PRT
<213> Homo sapiens

<400> 4804
Leu Trp Gln Asn Leu Phe Trp His Asn His Ile Cys Ser Leu Tyr Lys
1 5 10 15

Ile Ser Phe Leu Cys Phe Arg Lys Asn Val Ser Tyr Tyr Ser Glu Ser
20 25 30

Cys Asp Ser Asp Ser Ser Trp Phe Gly Ala Gln Lys Phe Leu Asn Met
35 40 45

Ser Leu Leu Leu Val Lys His Arg Ile Cys Phe Leu Gln Lys Phe Ile
50 55 60

Phe Asn Glu Glu Tyr Leu Ser
65 70

<210> 4805
<211> 106
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4805
Ala Leu His Thr Cys Trp Tyr Leu Leu Ala Asn Cys Ala Ala Leu Thr
1 5 10 15

Cys His Leu Ser Leu Cys Pro Asn Thr Thr Thr Val Ala Thr Val Pro
20 25 30

Thr Thr Ile Pro Thr Val Thr Leu Val Ile Ala Tyr Ser Ala Thr Asn
35 40 45

```
Ser Pro Cys Gly Ser Thr Ser Met Leu Gly Leu Leu Ala Leu Pro Ser
     50                  55                  60

Met Ser Thr Tyr Met Ala Ala Ser Ala Tyr Thr Thr Xaa Leu Leu Thr
 65                  70                  75                  80

Phe Thr Leu Val Gly Thr Leu Asn Leu Ala Ile Val Arg Leu Leu Ser
                 85                  90                  95

Ser Asn Arg Leu Thr Cys Asn Asn Xaa Xaa
            100                 105
```

<210> 4806
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4806

```
Trp Asp Cys Arg His Pro Pro Ser Cys Pro Ala Lys Phe Cys Thr Phe
  1               5                  10                  15

Val Glu Met Glu Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu
             20                  25                  30

Thr Ser Gly Asp Leu Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr
         35                  40                  45

Gly Val Ser His His Ala Trp Thr Xaa Cys Cys Cys Cys Phe
     50                  55                  60
```

<210> 4807
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4807
Met Lys Glu Asp Leu Phe Ser Leu Arg Ser Val Cys Gly Val Ser Cys
1 5 10 15

Pro Gly Leu Leu Ser Glu Val Trp Pro Gln Gly Leu Arg Glu Val Ala
20 25 30

Arg Thr Pro Gln Gly Gly Pro His His Arg Gly Cys Cys Pro Thr Gly
35 40 45

Ser Ser Pro Xaa Ser Gly Thr Leu Pro Xaa Ser Leu Trp Glu Gly Glu
50 55 60

Met Ala Thr Gly Leu Glu Asn Arg His Pro Val
65 70 75

<210> 4808
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (174)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4808
Gly Leu Val Gly Pro Leu Leu Val Cys Arg Ala Gly Ala Leu Gly Ala
1 5 10 15

Asp Gly Lys Gln Lys Gly Val Asp Lys Glu Phe Phe Leu Leu Phe Thr
20 25 30

Val Leu Asp Glu Asn Lys Ser Trp Tyr Ser Asn Ala Asn Gln Ala Ala
35 40 45

```
Ala Met Leu Asp Phe Arg Leu Leu Ser Glu Asp Ile Glu Gly Phe Gln
     50                  55                  60

Asp Ser Asn Arg Met His Ala Ile Asn Gly Phe Leu Phe Ser Asn Leu
 65                  70                  75                  80

Pro Arg Leu Asp Met Cys Lys Gly Asp Thr Val Ala Trp His Leu Leu
                 85                  90                  95

Gly Leu Gly Thr Glu Thr Asp Val His Gly Val Met Phe Gln Gly Asn
            100                 105                 110

Thr Val Gln Leu Gln Gly Met Arg Lys Gly Ala Ala Met Leu Phe Pro
        115                 120                 125

His Thr Phe Val Met Ala Ile Met Gln Pro Asp Asn Leu Gly Thr Phe
    130                 135                 140

Glu Ile Tyr Cys Gln Ala Gly Lys Pro Ser Arg Thr Xaa Met Lys Ala
145                 150                 155                 160

Ile Tyr Asn Gly Ser Asn Xaa Leu Gly Thr Lys Pro Pro Xaa Ala Thr
                165                 170                 175

Leu Pro Thr Cys Lys Asn Leu Leu Phe His Gly
            180                 185
```

<210> 4809
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4809

```
Ala Ile Pro Leu Thr Asn Asp Gly Val Pro Ser Glu Ser Ser Ala Gly
  1               5                  10                  15

Arg Leu Leu Cys Val Gly Arg Leu Gly Leu Gly Arg Gly Leu Ser Pro
             20                  25                  30

Asn Leu Gly Pro Ala Glu Gln Glu Gln Asn His Tyr Leu Ala Gln Leu
         35                  40                  45

Phe Gly Leu Tyr Gly Glu Asn Gly Thr Leu Thr Ala Gly Gly Leu Ala
     50                  55                  60
```

```
Arg Leu Leu His Ser Leu Gly Leu Gly Arg Val Gln Gly Leu Arg Leu
 65                  70                  75                  80

Gly Gln His Gly Pro Leu Thr Gly Arg Ala Ala Ser Pro Ala Ala Asp
                85                  90                  95

Asn Ser Thr His Arg Pro Gln Asn Pro Glu Leu Ser Val Asp Val Trp
            100                 105                 110

Ala Gly Met Pro Leu Gly Pro Ser Gly Trp Gly Asp Leu Glu Xaa
        115                 120                 125
```

<210> 4810
<211> 216
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (215)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4810

```
Ala Ser Met Asp Pro Asp Ser Asp Gln Pro Leu Asn Ser Leu Asp Val
  1               5                  10                  15

Lys Pro Leu Arg Lys Pro Arg Ile Pro Ile Ile Ile Ala Leu Leu Ser
             20                  25                  30

Leu Ala Ser Ile Ile Ile Val Val Val Leu Ile Lys Val Ile Leu Asp
         35                  40                  45

Lys Tyr Tyr Phe Leu Cys Gly Gln Pro Leu His Phe Ile Pro Arg Lys
     50                  55                  60

Gln Leu Cys Asp Gly Glu Leu Asp Cys Pro Leu Gly Glu Asp Glu Glu
 65                  70                  75                  80
```

```
His Cys Val Lys Ser Phe Pro Glu Gly Pro Xaa Val Ala Val Arg Leu
                 85                  90                  95

Ser Lys Asp Arg Ser Thr Leu Gln Val Leu Asp Ser Ala Thr Gly Asn
            100                 105                 110

Trp Phe Ser Ala Cys Phe Asp Asn Phe Thr Glu Ala Leu Ala Glu Thr
        115                 120                 125

Ala Cys Arg Gln Met Gly Tyr Ser Ser Lys Pro Thr Phe Arg Ala Val
    130                 135                 140

Glu Ile Gly Pro Asp Gln Asp Leu Asp Val Val Glu Ile Thr Glu Asn
145                 150                 155                 160

Ser Gln Glu Leu Arg Met Arg Asn Ser Ser Gly Pro Cys Leu Ser Gly
                165                 170                 175

Ser Leu Val Ser Leu His Cys Leu Ala Cys Gly Lys Ser Leu Lys Thr
            180                 185                 190

Pro Arg Val Val Xaa Gly Glu Glu Ala Ser Val Asp Ser Trp Pro Trp
        195                 200                 205

Gln Val Ser Ile Gln Tyr Xaa Lys
    210                 215
```

<210> 4811
<211> 139
<212> PRT
<213> Homo sapiens

<400> 4811

```
Ser Ser Asn Thr Phe Arg Leu Gln Val Gln Thr Gln Glu Ser Lys Ala
  1               5                  10                  15

Gln Lys Glu Leu Glu Arg Gln Leu Ile Met Gln Ser Glu Met Arg Glu
             20                  25                  30

Arg Gln Met Ala Met Gln Ile Ala Trp Ser Arg Glu Phe Leu Lys Tyr
         35                  40                  45

Phe Gly Thr Phe Phe Gly Leu Ala Ala Ile Ser Leu Thr Ala Gly Ala
     50                  55                  60

Ile Lys Lys Lys Lys Pro Ala Phe Leu Val Pro Ile Val Pro Leu Ser
 65                  70                  75                  80

Phe Ile Leu Thr Tyr Gln Tyr Asp Leu Gly Tyr Gly Thr Leu Leu Glu
```

85 90 95

Arg Met Lys Gly Glu Ala Glu Asp Ile Leu Glu Thr Glu Lys Ser Lys
100 105 110

Leu Gln Leu Pro Arg Gly Met Ile Thr Phe Glu Ser Ile Glu Lys Ala
115 120 125

Arg Lys Glu Gln Ser Arg Phe Phe Ile Asp Lys
130 135

<210> 4812
<211> 121
<212> PRT
<213> Homo sapiens

<400> 4812
Gly Arg Phe Ala Pro Ser Pro Pro Pro Ala Leu Pro Gly Asn Pro Leu
1 5 10 15

Lys Met Arg Pro Pro Val Leu Arg Glu Pro Gly Ala Pro Ala Ser Ala
20 25 30

Pro Ala Gln Pro Leu Pro Gly Ala Asp Pro Gly Trp Asp Phe Gly Gly
35 40 45

Pro Ser Leu Ser Pro Leu Arg Glu Asn Arg Pro Gly Arg Cys Gly Glu
50 55 60

Gly Pro Arg Ala Ile Leu Ala Gly Gly Ala Gly Arg Arg Thr Arg Ala
65 70 75 80

Arg Arg Pro Ser Pro Ala Arg Thr Ser Ser Arg Gln Ser Ser Gly Lys
85 90 95

Gly Ser Leu Phe Phe Ser Leu Gly Lys Ile Lys Ser Pro Arg Glu Asn
100 105 110

Lys Ala Gly Lys Gly Ala Pro Phe Leu
115 120

<210> 4813
<211> 364
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (250)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4813

```
Asp Gly Gly Xaa Xaa Thr Gln Trp Ala Xaa Glu Phe Pro Phe Asp Val
  1               5                  10                  15

Asp Ala Leu Phe Pro Glu Arg Ile Thr Val Leu Asp Gln His Leu Arg
             20                  25                  30

Pro Pro Ala Arg Arg Pro Gly Thr Thr Thr Pro Ala Arg Val Asp Leu
         35                  40                  45

Gln Gln Gln Ile Met Thr Ile Ile Asp Glu Leu Gly Lys Ala Ser Ala
     50                  55                  60

Lys Ala Gln Asn Leu Ser Ala Pro Ile Thr Ser Ala Ser Arg Met Gln
 65                  70                  75                  80

Ser Asn Arg His Val Val Tyr Ile Leu Lys Asp Ser Ser Ala Arg Pro
                 85                  90                  95

Ala Gly Lys Gly Ala Ile Ile Gly Phe Ile Lys Val Gly Tyr Lys Lys
            100                 105                 110

Leu Phe Val Leu Asp Asp Arg Glu Ala His Asn Glu Val Glu Pro Leu
        115                 120                 125

Cys Ile Leu Asp Phe Tyr Ile His Glu Ser Val Gln Arg His Gly His
    130                 135                 140

Gly Arg Glu Leu Phe Gln Tyr Met Leu Gln Lys Glu Arg Val Glu Pro
145                 150                 155                 160

His Gln Leu Ala Ile Asp Arg Pro Ser Gln Lys Leu Leu Lys Phe Leu
```

```
                165                 170                 175

Asn Lys His Tyr Asn Leu Glu Thr Thr Val Pro Gln Val Asn Asn Phe
            180                 185                 190

Val Ile Phe Glu Gly Phe Phe Ala His Gln His Arg Pro Pro Ala Pro
        195                 200                 205

Ser Leu Arg Ala Thr Arg His Ser Arg Ala Ala Ala Val Asp Pro Thr
    210                 215                 220

Pro Ala Ala Pro Ala Arg Lys Leu Pro Pro Lys Arg Ala Glu Gly Asp
225                 230                 235                 240

Ile Lys Pro Tyr Ser Ser Ser Asp Arg Xaa Phe Leu Lys Val Ala Val
                245                 250                 255

Glu Pro Pro Trp Pro Leu Asn Arg Ala Pro Arg Arg Ala Thr Pro Pro
            260                 265                 270

Ala His Pro Pro Pro Arg Ser Ser Ser Leu Gly Asn Ser Pro Glu Arg
        275                 280                 285

Gly Pro Leu Arg Pro Phe Val Pro Glu Gln Glu Leu Leu Arg Ser Leu
    290                 295                 300

Arg Leu Cys Pro Pro His Pro Thr Ala Arg Leu Leu Leu Ala Ala Asp
305                 310                 315                 320

Pro Gly Gly Ser Pro Ala Gln Arg Arg Arg Thr Ser Ser Leu Pro Arg
                325                 330                 335

Ser Glu Glu Ser Arg Tyr Leu Thr Ala Tyr Pro Ser Pro Cys Pro Gly
            340                 345                 350

Gly Asp Leu Gly Val Gly Gln Gly Asn Pro Phe Ser
        355                 360
```

<210> 4814
<211> 145
<212> PRT
<213> Homo sapiens

<400> 4814

```
Asn Thr Ala Lys Phe Thr Asn Cys Thr Cys Cys Ile Val Lys Pro His
  1               5                  10                  15

Ala Val Ser Glu Gly Leu Leu Gly Lys Ile Leu Met Ala Ile Arg Asp
             20                  25                  30
```

```
Ala Gly Phe Glu Ile Ser Ala Met Gln Met Phe Asn Met Asp Arg Val
         35                  40                  45

Asn Val Glu Glu Phe Tyr Glu Val Tyr Lys Gly Val Val Thr Glu Tyr
     50                  55                  60

His Asp Met Val Thr Glu Met Tyr Ser Gly Pro Cys Val Ala Met Glu
 65                  70                  75                  80

Ile Gln Gln Asn Asn Ala Thr Lys Thr Phe Arg Glu Phe Cys Gly Pro
                85                  90                  95

Ala Asp Pro Glu Ile Ala Arg His Leu Arg Pro Gly Thr Leu Arg Ala
            100                 105                 110

Ile Phe Gly Lys Thr Lys Ile Gln Asn Ala Val His Cys Thr Asp Leu
        115                 120                 125

Pro Glu Asp Gly Leu Leu Glu Val Gln Tyr Phe Phe Lys Ile Leu Asp
    130                 135                 140

Asn
145
```

<210> 4815
<211> 404
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4815

```
Gln Asn Val Ile Met Phe Val Gly Leu Gln Gly Ser Gly Xaa Thr Thr
  1               5                  10                  15

Thr Cys Ser Lys Leu Ala Tyr Tyr Tyr Gln Arg Lys Gly Trp Lys Thr
             20                  25                  30

Cys Leu Ile Cys Ala Asp Thr Phe Arg Ala Gly Ala Phe Asp Gln Leu
         35                  40                  45

Lys Gln Asn Ala Thr Lys Ala Arg Ile Pro Phe Tyr Gly Ser Tyr Thr
     50                  55                  60

Glu Met Asp Pro Val Ile Ile Ala Ser Glu Gly Val Glu Lys Phe Lys
```

65 70 75 80

Asn Glu Asn Phe Glu Ile Ile Ile Val Asp Thr Ser Gly Arg His Lys
85 90 95

Gln Glu Asp Ser Leu Phe Glu Glu Met Leu Gln Val Ala Asn Ala Ile
100 105 110

Gln Pro Asp Asn Ile Val Tyr Val Met Asp Ala Ser Ile Gly Gln Ala
115 120 125

Cys Glu Ala Gln Ala Lys Ala Phe Lys Asp Lys Val Asp Val Ala Ser
130 135 140

Val Ile Val Thr Lys Leu Asp Gly His Ala Lys Gly Gly Gly Ala Leu
145 150 155 160

Ser Ala Val Ala Ala Thr Lys Ser Pro Ile Ile Phe Ile Gly Thr Gly
165 170 175

Glu His Ile Asp Asp Phe Glu Pro Phe Lys Thr Gln Pro Phe Ile Ser
180 185 190

Lys Leu Leu Gly Met Gly Asp Ile Glu Gly Leu Ile Asp Lys Val Asn
195 200 205

Glu Leu Lys Leu Asp Asp Asn Glu Ala Leu Ile Glu Lys Leu Lys His
210 215 220

Gly Gln Phe Thr Leu Arg Asp Met Tyr Glu Gln Phe Gln Asn Ile Met
225 230 235 240

Lys Met Gly Pro Phe Ser Gln Ile Leu Gly Met Ile Pro Gly Phe Gly
245 250 255

Thr Asp Phe Met Ser Lys Gly Asn Glu Gln Glu Ser Met Ala Arg Leu
260 265 270

Lys Lys Leu Met Thr Ile Met Asp Ser Met Asn Asp Gln Glu Leu Asp
275 280 285

Ser Thr Asp Gly Ala Lys Val Phe Ser Lys Gln Pro Gly Arg Ile Gln
290 295 300

Arg Val Ala Arg Gly Ser Gly Val Ser Thr Arg Asp Val Gln Glu Leu
305 310 315 320

Leu Thr Gln Tyr Thr Lys Phe Ala Gln Met Val Lys Lys Met Gly Gly
325 330 335

Ile Lys Gly Leu Phe Lys Gly Gly Asp Met Ser Lys Asn Val Ser Gln

```
           340                 345                 350

Ser Gln Met Ala Lys Leu Asn Gln Gln Met Ala Lys Met Met Asp Pro
        355                 360                 365

Arg Val Leu His His Met Gly Gly Met Ala Gly Leu Gln Ser Met Met
    370                 375                 380

Arg Gln Phe Gln Gln Gly Ala Ala Gly Asn Met Lys Gly Met Met Gly
385                 390                 395                 400

Phe Asn Asn Met
```

<210> 4816
<211> 66
<212> PRT
<213> Homo sapiens

<400> 4816

```
Ser Leu Ile Ser Leu Tyr Phe Ser Phe Phe Val Cys Glu Tyr Tyr Pro
  1               5                  10                  15

Tyr Thr Thr Thr Pro Lys Thr Ser Glu Leu Phe Ala Leu Phe Phe His
             20                  25                  30

Thr Thr Trp Gly Arg Glu Pro Trp Glu Tyr Ala His Gly Ile Ile Ile
         35                  40                  45

His Ser Val Val Trp Lys Lys Lys Met Leu Thr Ser Ala Leu Glu Gly
     50                  55                  60

Ser Tyr
 65
```

<210> 4817
<211> 90
<212> PRT
<213> Homo sapiens

<400> 4817

```
His Ala Ser Ala Asp Ala Trp Ala Asp Ala Trp Glu Lys Ser Cys Glu
  1               5                  10                  15

Glu Ile Asp Leu Asp Lys His Lys Ser Ile Gln Arg Lys Lys Thr Glu
             20                  25                  30
```

```
Val Glu Ile Glu Thr Val His Val Ser Thr Glu Lys Leu Lys Asn Arg
         35                  40                  45

Lys Glu Lys Lys Ser Arg Asp Val Val Ser Lys Lys Glu Glu Arg Lys
     50                  55                  60

Arg Thr Lys Lys Lys Lys Glu Gln Gly Gln Glu Arg Thr Glu Glu Glu
 65                  70                  75                  80

Met Leu Trp Asp Gln Ser Ile Leu Gly Phe
                 85                  90
```

<210> 4818
<211> 154
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4818

```
Gly Gly Phe Leu His Pro Gln Pro Glu Arg Arg Pro Xaa Gly Pro Ala
  1               5                  10                  15

Pro Arg Lys Pro Pro Val Ala Arg Pro Arg Ser Gly Leu Gly Ser Pro
             20                  25                  30

Gly Lys Arg Phe Gly Arg Ala His Gly Asp Cys Val Ser Gly Ala Gln
         35                  40                  45

Leu Cys Gly Cys Pro Ser Met Asp Asp Tyr Met Val Leu Arg Met Ile
     50                  55                  60
```

```
Gly Glu Gly Ser Phe Gly Arg Ala Leu Leu Val Gln His Glu Ser Ser
 65                  70                  75                  80

Asn Gln Met Phe Ala Met Lys Glu Ile Arg Leu Pro Lys Ser Phe Ser
                 85                  90                  95

Asn Thr Gln Asn Ser Arg Lys Glu Ala Val Leu Leu Ala Lys Met Lys
            100                 105                 110

His Pro Asn Ile Xaa Ala Phe Lys Glu Ser Phe Glu Ala Xaa Gly His
        115                 120                 125

Leu Tyr Ile Val Met Glu Tyr Cys Asp Gly Xaa Asp Leu Met Gln Lys
    130                 135                 140

Ile Lys Gln Gln Lys Arg Lys Val Ile Ser
145                 150
```

<210> 4819
<211> 63
<212> PRT
<213> Homo sapiens

<400> 4819

```
Arg Leu His Arg Tyr Pro Glu Ala Met Ala Ser Lys Gly Leu Gln Asp
  1               5                  10                  15

Leu Lys Gln Gln Val Glu Gly Thr Ala Gln Glu Ala Ala Met Asp Gln
             20                  25                  30

Leu Ala Lys Thr Thr Gln Glu Thr Ile Asp Lys Thr Ala Asn Gln Ala
         35                  40                  45

Ser Asp Thr Phe Ser Gly Ile Gly Lys Lys Phe Gly Leu Leu Lys
     50                  55                  60
```

<210> 4820
<211> 261
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (226)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4820
Val Lys Lys Asp Thr Leu Thr Glu Glu Glu Thr Gln Phe Tyr Ile Ala
1 5 10 15

Glu Thr Val Leu Ala Ile Asp Ser Ile His Gln Leu Gly Phe Ile His
20 25 30

Arg Asp Ile Lys Pro Asp Asn Leu Leu Leu Asp Ser Lys Gly His Val
35 40 45

Lys Leu Ser Asp Phe Gly Leu Cys Thr Gly Leu Lys Lys Ala His Arg
50 55 60

Thr Glu Phe Tyr Arg Asn Leu Asn His Ser Leu Pro Ser Asp Phe Thr
65 70 75 80

Phe Gln Asn Met Asn Ser Lys Arg Lys Ala Glu Thr Trp Lys Arg Asn
85 90 95

Arg Arg Gln Leu Ala Phe Ser Thr Val Gly Thr Pro Asp Tyr Ile Ala
100 105 110

Pro Glu Val Phe Met Gln Thr Gly Tyr Asn Lys Leu Cys Asp Trp Trp
115 120 125

Ser Leu Gly Val Ile Met Tyr Glu Met Leu Ile Gly Tyr Pro Pro Phe
130 135 140

Cys Xaa Glu Thr Pro Gln Glu Thr Tyr Lys Lys Val Met Asn Trp Lys
145 150 155 160

Glu Thr Leu Thr Phe Pro Pro Glu Val Pro Ile Ser Glu Lys Ala Lys
165 170 175

Asp Leu Ile Leu Arg Phe Cys Cys Glu Trp Glu His Arg Ile Gly Ala
180 185 190

Pro Gly Val Glu Glu Ile Lys Ser Asn Ser Phe Phe Glu Gly Val Asp
195 200 205

Trp Glu His Ile Arg Glu Arg Pro Ala Ala Ile Ser Ile Glu Ile Lys
210 215 220

Ser Xaa Asp Asp Thr Ser Asn Phe Asp Glu Phe Pro Glu Ser Asp Ile
225 230 235 240

```
Leu Lys Pro Thr Asp Ala Phe Leu Gly Asp Thr Pro Pro His Pro Lys
                245                 250                 255

Gly Ser Pro Ala Thr
            260
```

<210> 4821
<211> 178
<212> PRT
<213> Homo sapiens

<400> 4821

```
Phe Arg Ala Leu His Arg Gly Ala Ala Leu Asp Leu Ser Pro Leu His
  1               5                  10                  15

Arg Ser Pro His Pro Ser Arg Gln Ala Ile Phe Cys Trp Met Ser Phe
             20                  25                  30

Ser Ala Tyr Gln Thr Ala Phe Ile Cys Leu Gly Leu Leu Val Gln Gln
         35                  40                  45

Ile Ile Phe Phe Leu Gly Thr Thr Ala Leu Ala Phe Leu Val Leu Met
     50                  55                  60

Pro Val Leu His Gly Arg Asn Leu Leu Leu Phe Arg Ser Leu Glu Ser
 65                  70                  75                  80

Ser Trp Pro Phe Trp Leu Thr Leu Ala Leu Ala Val Ile Leu Gln Asn
                 85                  90                  95

Met Ala Ala His Trp Val Phe Leu Glu Thr His Asp Gly His Pro Gln
            100                 105                 110

Leu Thr Asn Arg Arg Val Leu Tyr Ala Ala Thr Phe Leu Leu Phe Pro
        115                 120                 125

Leu Asn Val Leu Val Gly Ala Met Val Ala Thr Trp Arg Val Leu Leu
    130                 135                 140

Ser Ala Leu Tyr Asn Ala Ile His Leu Gly Gln Met Asp Leu Ser Leu
145                 150                 155                 160

Leu Pro Pro Arg Ala Ala Leu Ser Thr Pro Ala Thr Thr Arg Thr Glu
                165                 170                 175

Thr Ser
```

<210> 4822
<211> 178
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4822
Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro
1 5 10 15

Pro Ile Phe Pro Val Asp Asn Ala Ile Asp Asn Xaa Lys Glu Ile Gln
20 25 30

Val Ala Leu Xaa Ile Leu Met Ala Ala Tyr Ala Met Ala Glu Ala Phe
35 40 45

Met Ser Thr Gly Val Gly Ala Ser Leu Ile Leu Ile Ala Leu Lys Val
50 55 60

Gly Ile Thr Ala Lys Thr Val Ala Val Ile Gly Ala Ile Val Thr Ser
65 70 75 80

Ile Leu Ser Ile Ala Thr Gly Thr Ser Trp Gly Thr Phe Ala Ala Cys
85 90 95

Ala Pro Ile Phe Leu Trp Leu Asn His Ile Val Gly Gly Asn Ile Leu
100 105 110

Leu Thr Thr Ala Ala Ile Ala Gly Gly Ala Cys Phe Gly Asp Asn Ile
115 120 125

Gly Leu Ile Ser Asp Thr Thr Ile Val Ser Ser Gly Ile Gln Lys Val
130 135 140

Glu Val Val Arg Arg Ile Arg His Gln Gly Val Trp Ser Ala Leu Val
145 150 155 160

Leu Leu Ser Gly Ile Ile Val Phe Ala Ile Val Gly Phe Thr Trp Ile
165 170 175

Tyr Pro

<210> 4823
<211> 40
<212> PRT
<213> Homo sapiens

<400> 4823
Leu Cys Cys Phe Lys Tyr Leu Gly Asp Cys Phe Ile Ile Ser Ser Thr
1 5 10 15

Lys Lys Thr Phe Asn Phe Ala Ile Glu Thr Val Glu Leu Cys His Ala
20 25 30

Phe Ile Arg Ser Ser Ala Leu Cys
35 40

<210> 4824
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4824
Thr Gln Leu Arg Glu Cys Leu Phe Arg Ala Trp Ser Cys Tyr Leu Tyr
1 5 10 15

Leu Lys Ser Ser His Pro Val Pro Cys Phe Arg Ala Gly Leu Gln Phe
20 25 30

His Cys Ser Phe Leu Lys Leu Leu Cys Pro Gln Leu Thr Leu Phe Xaa
35 40 45

Asn Val Val Phe His Trp Thr Gly Leu Leu Phe Leu Val Ser His Ala
50 55 60

Phe Gly Phe Tyr Xaa
65

<210> 4825
<211> 306
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4825

```
Val Ser Arg Pro Ala Gly Lys Asp Met Met Arg Lys Leu Glu Lys His
  1               5                  10                  15

Met Thr Ala Xaa Lys Gly Pro Met Ile Val Leu Val Leu Asp Glu Met
             20                  25                  30

Asp Gln Leu Asp Ser Lys Xaa Gln Asp Val Leu Tyr Thr Leu Phe Glu
         35                  40                  45

Trp Pro Trp Leu Ser Asn Ser His Leu Val Leu Ile Gly Ile Ala Asn
     50                  55                  60

Thr Leu Asp Leu Thr Asp Arg Ile Leu Pro Arg Leu Gln Ala Arg Glu
 65                  70                  75                  80

Lys Cys Lys Pro Gln Leu Leu Asn Phe Pro Pro Tyr Thr Arg Asn Gln
                 85                  90                  95

Ile Val Thr Ile Leu Gln Asp Arg Leu Asn Gln Val Ser Arg Asp Gln
            100                 105                 110

Val Leu Asp Asn Ala Ala Val Gln Phe Cys Ala Arg Lys Val Ser Ala
        115                 120                 125

Val Ser Gly Asp Val Arg Lys Ala Leu Asp Val Cys Arg Arg Ala Ile
    130                 135                 140

Glu Ile Val Glu Ser Asp Val Lys Ser Gln Thr Ile Leu Lys Pro Leu
145                 150                 155                 160

Ser Glu Cys Lys Ser Pro Ser Glu Pro Leu Ile Pro Lys Arg Val Gly
                165                 170                 175
```

```
Leu Ile His Ile Ser Gln Val Ile Ser Glu Val Asp Gly Asn Arg Met
            180                 185                 190

Thr Leu Ser Gln Glu Gly Ala Gln Asp Ser Phe Pro Leu Gln Gln Lys
        195                 200                 205

Ile Leu Val Cys Ser Leu Met Leu Leu Ile Arg Gln Leu Lys Ile Lys
    210                 215                 220

Glu Val Thr Leu Gly Lys Leu Tyr Glu Ala Tyr Ser Lys Val Cys Arg
225                 230                 235                 240

Lys Gln Gln Val Ala Ala Val Asp Gln Ser Glu Cys Leu Ser Leu Ser
                245                 250                 255

Gly Leu Leu Glu Ala Arg Gly Ile Leu Gly Leu Lys Arg Asn Lys Glu
            260                 265                 270

Thr Arg Leu Thr Lys Val Phe Phe Lys Ile Glu Glu Lys Glu Ile Glu
        275                 280                 285

His Ala Leu Lys Asp Lys Ala Leu Ile Gly Asn Ile Leu Ala Thr Gly
    290                 295                 300

Leu Pro
305
```

<210> 4826
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4826

```
Ala Ala Ala Gly Pro Gly Ala Cys Trp Ala Ser Pro Pro Arg Arg Leu
  1               5                  10                  15

His Ala Pro Thr Ala Xaa Ser Thr Xaa Ser Phe Gln Ala Arg Gln Leu
            20                  25                  30
```

```
Leu Glu Lys Glu Phe Ser Asn Leu Ile Ser Leu Gly Thr Asp Arg Arg
         35                  40                  45

Leu Asp Glu Asp Ser Ala Lys Ser Phe Ser Arg Ser Pro Ser Trp Arg
     50                  55                  60

Lys Met Phe Arg Glu Lys Asp Leu Arg Gly Val Thr Pro Asp Ser Ala
 65                  70                  75                  80

Glu Met Leu Pro Pro Asn Phe Arg Ser Ala Ala Ala Gly Ala Leu Gly
                 85                  90                  95

Ser Pro Gly Leu Pro Leu Arg Lys Leu Gln Pro Glu Gly Gln Thr Ser
            100                 105                 110

Gly Ser Ser Arg Ala Asp Gly Val Ser Val Arg Thr Tyr Ser Cys
        115                 120                 125
```

<210> 4827
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4827

```
Glu Ala Ala Asn Met Ile Leu Val Asp Asp Asp Phe Ser Ala Ile Met
  1               5                  10                  15

Asn Ala Val Glu Glu Gly Lys Gly Ile Phe Tyr Asn Ile Lys Asn Phe
             20                  25                  30

Val Arg Phe Gln Leu Ser Thr Ser Ile Ser Ala Leu Ser Leu Ile Thr
         35                  40                  45

Leu Ser Thr Val Phe Asn Leu Pro Ser Pro Leu Asn Ala Met Gln Ile
     50                  55                  60

Leu Trp Ile Asn Ile Ile Met Asp Gly Pro Pro Xaa Gln Arg
 65                  70                  75
```

<210> 4828
<211> 61

<212> PRT
<213> Homo sapiens

<400> 4828
Asn Ile Val Cys Ser Asp Phe Ile Lys Asp Ile Phe Lys Ser Pro Ile
1 5 10 15

Tyr Ser Arg Ile Phe Ser Tyr Asp Val Ile Tyr Glu Lys Asp Val Cys
20 25 30

Thr Asn Arg Cys Cys Asn Thr Thr Val Val Gly Phe Tyr Cys Leu Val
35 40 45

Ile Asn Val Tyr Asn Ile Ser Lys Gly Asn Tyr Val Leu
50 55 60

<210> 4829
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4829
Ala Leu Trp Gly Asp Ala Ser Gly Gln Ser Cys Leu Leu Ile Phe Ile
1 5 10 15

Leu Arg Ala Ser Ala Leu Glu Xaa Leu Pro His Ala Phe Ser Val Asp
20 25 30

His Ser Gly Pro Pro Val Gly Val Ala Cys Gln Ala Arg Thr Pro Pro
35 40 45

Gly Gly Gln Ser Arg Asn Leu Arg Gly Ala Glu Thr Pro Phe Ile Ser
50 55 60

Gly Cys His Arg Pro Glu Gln His Trp Ala Gly Cys Pro Leu Leu Thr
65 70 75 80

Gly Trp Gln His Lys Asp Asn Met Ser Arg Gly Arg Arg Arg Arg Gly
85 90 95

Ala Gln Ala Ala Gly His Ser Pro Ala Ala Pro Glu Ala Leu Ile Ser
100 105 110

Asp His Gln Ala Met Thr Phe Leu Cys Ala Leu Gln Lys Ala Phe Asn

115 120 125

Cys Asp Gln Ala Val Cys Ser Asp Thr Leu Ser Gly Asp Phe
130 135 140

<210> 4830
<211> 163
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4830
Gly Pro Arg His Ala Asp Phe Pro Cys Ser Ala Val Val Arg Lys Cys
1 5 10 15

```
Leu Ala Ala Xaa Gly Arg Arg Arg Gly Arg Gln Thr Tyr Ser Arg Phe
            20                  25                  30

Gln Thr Leu Glu Leu Glu Lys Glu Phe Leu Phe Asn Pro Tyr Leu Thr
        35                  40                  45

Arg Lys Arg Arg Ile Glu Val Ser His Ala Leu Ala Xaa Thr Glu Arg
    50                  55                  60

Xaa Val Lys Ile Trp Phe Gln Asn Arg Arg Met Asn Gly Lys Xaa Lys
65                  70                  75                  80

Thr Thr Arg Gln Ile Ser Arg Phe Pro Ala Gly Gly Glu Gly Arg Gly
                85                  90                  95

Asn Glu Lys Xaa Ser Pro Arg Ala Gly Gly Arg Gln Ser Arg Arg Pro
            100                 105                 110

Xaa Xaa Leu Thr Ser Thr Phe Lys Ile Tyr His Arg Leu Leu Lys Leu
        115                 120                 125

Ile Ile Thr Ile Cys Cys Gly His His Leu Phe Ser Leu Leu Glu Arg
    130                 135                 140

Thr Leu Pro Val Phe Gln Ala Thr Phe Met Ser Leu Leu Leu Arg Phe
145                 150                 155                 160

Ser Val Leu
```

<210> 4831
<211> 183
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4831
Glu Leu Lys Arg Leu Thr Ile Gly Lys Asn Xaa Xaa Arg Leu Thr Gly
1 5 10 15

Asn Arg Xaa Gly Ile Pro Gly Ser Thr His Ala Ser Glu Xaa Glu Val
20 25 30

Glu Glu Glu Gly Asp Val Asp Ser Asp Glu Glu Glu Glu Glu Asp Glu
35 40 45

Glu Ser Ser Ser Glu Gly Leu Glu Ala Glu Asp Trp Ala Gln Gly Val
50 55 60

Val Glu Ala Gly Gly Ser Phe Gly Ala Tyr Gly Ala Gln Glu Glu Ala
65 70 75 80

Gln Cys Pro Thr Leu His Phe Leu Glu Gly Gly Glu Asp Ser Asp Ser
85 90 95

Asp Ser Glu Glu Glu Asp Asp Glu Glu Glu Asp Asp Glu Asp Glu Asp
100 105 110

Asp Asp Asp Asp Glu Glu Asp Gly Asp Glu Val Pro Val Pro Ser Phe
115 120 125

Gly Glu Ala Met Ala Tyr Phe Ala Met Val Lys Arg Tyr Leu Thr Ser
130 135 140

Phe Pro Ile Asp Asp Arg Val Gln Ser His Ile Leu His Leu Glu His
145 150 155 160

Asp Leu Val His Val Thr Arg Lys Asn His Ala Arg Gln Ala Gly Val
165 170 175

Arg Gly Leu Gly His Gln Ser
180

<210> 4832
<211> 313
<212> PRT
<213> Homo sapiens

<400> 4832

```
Gly Arg Phe Gln Lys Cys Leu Ala Val Gly Met Ser His Asn Ala Ile
 1               5                  10                  15

Arg Phe Gly Arg Met Pro Gln Ala Glu Lys Glu Lys Leu Leu Ala Glu
            20                  25                  30

Ile Ser Ser Asp Ile Asp Gln Leu Asn Pro Glu Ser Ala Asp Leu Arg
        35                  40                  45

Ala Leu Ala Lys His Leu Tyr Asp Ser Tyr Ile Lys Ser Phe Pro Leu
    50                  55                  60

Thr Lys Ala Lys Ala Arg Ala Ile Leu Thr Gly Lys Thr Thr Asp Lys
65                  70                  75                  80

Ser Pro Phe Val Ile Tyr Asp Met Asn Ser Leu Met Met Gly Glu Asp
                85                  90                  95

Lys Ile Lys Phe Lys His Ile Thr Pro Leu Gln Glu Gln Ser Lys Glu
            100                 105                 110

Val Ala Ile Arg Ile Phe Gln Gly Cys Gln Phe Arg Ser Val Glu Ala
        115                 120                 125

Val Gln Glu Ile Thr Glu Tyr Ala Lys Ser Ile Pro Gly Phe Val Asn
    130                 135                 140

Leu Asp Leu Asn Asp Gln Val Thr Leu Leu Lys Tyr Gly Val His Glu
145                 150                 155                 160

Ile Ile Tyr Thr Met Leu Ala Ser Leu Met Asn Lys Asp Gly Val Leu
                165                 170                 175

Ile Ser Glu Gly Gln Gly Phe Met Thr Arg Glu Phe Leu Lys Ser Leu
            180                 185                 190

Arg Lys Pro Phe Gly Asp Phe Met Glu Pro Lys Phe Glu Phe Ala Val
        195                 200                 205

Lys Phe Asn Ala Leu Glu Leu Asp Asp Ser Asp Leu Ala Ile Phe Ile
    210                 215                 220

Ala Val Ile Ile Leu Ser Gly Asp Arg Pro Gly Leu Leu Asn Val Lys
225                 230                 235                 240

Pro Ile Glu Asp Ile Gln Asp Asn Leu Leu Gln Ala Leu Glu Leu Gln
                245                 250                 255

Leu Lys Leu Asn His Pro Glu Ser Ser Gln Leu Phe Ala Lys Leu Leu
            260                 265                 270
```

```
Gln Lys Met Thr Asp Leu Arg Gln Ile Val Thr Glu His Val Gln Leu
        275                 280                 285

Leu Gln Val Ile Lys Lys Thr Glu Thr Asp Met Ser Leu His Pro Leu
    290                 295                 300

Leu Gln Glu Ile Tyr Lys Asp Leu Tyr
305                 310
```

<210> 4833
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4833

```
Lys Ser Gly Ile Leu Val Asn Asn Val Xaa Met Ser Tyr Glu Tyr Pro
  1               5                  10                  15

Glu Tyr Phe Leu Asp Val Pro Asp Leu Asp Asn Val Ile Lys Lys Met
             20                  25                  30

Ile Asn Ile Asn Ile Leu Ser Val Cys Lys Met Thr Gln Leu Val Leu
         35                  40                  45

Pro Gly Met Val Glu Arg Ser Lys Gly Ala Ile Leu Asn Ile Ser Ser
     50                  55                  60

Gly Ser Gly Met Leu Pro Val Pro Leu Leu Thr Ile Tyr Ser Ala Thr
 65                  70                  75                  80

Lys Thr Phe Val Asp Phe Phe Ser Gln Cys Leu His Glu Glu Tyr Arg
                 85                  90                  95

Ser Lys Gly Val Phe Val Gln Ser Val Leu Pro Tyr Phe Val Ala Thr
            100                 105                 110

Lys Leu Ala Lys Ile Arg Lys Pro Thr Leu Asp Lys Pro Ser Pro Glu
        115                 120                 125

Thr Phe Val Lys Ser Ala Ile Lys Thr Val Gly Leu Gln Ser Arg Thr
    130                 135                 140

Asn Gly Tyr Leu Ile His Ala Leu Met Gly Ser Ile Ile Ser Asn Leu
145                 150                 155                 160
```

Pro Ser Trp Ile Tyr Leu Lys Ile Val Met Asn Met Asn Lys Ser Thr
165 170 175

Arg Ala His Tyr Leu Lys Lys Thr Lys Lys Asn
180 185

<210> 4834
<211> 99
<212> PRT
<213> Homo sapiens

<400> 4834
Ser Ile Glu Phe Ser Gly His Leu Phe Phe Pro Leu Pro Leu Leu Arg
1 5 10 15

Pro Ser Pro Pro Leu Ile Ile Ile Gln Val Val Val Lys Ile Val Leu
20 25 30

Leu Ser Asp Pro Phe Leu Val Trp Leu Phe Ile Pro Ser Glu Gln Val
35 40 45

Asn Val Gly Ala Thr Ala Leu Val Ser Thr Val Ser Leu Thr Val Asn
50 55 60

Glu Pro Pro Gly Val Ser Ser Lys Lys Arg Lys Gly Val Thr Gly Thr
65 70 75 80

Thr Ala Leu Phe His Phe Ile Asn Cys Leu Phe Met Leu Pro Ala Gln
85 90 95

Val Ser Thr

<210> 4835
<211> 301
<212> PRT
<213> Homo sapiens

<400> 4835
Leu Arg Val Phe Leu Cys Val Phe Phe Tyr Phe Ala Trp Leu Phe Glu
1 5 10 15

His Tyr Trp Thr Leu Val Leu Glu Gly Lys Thr Phe Gln Leu Tyr Ser
20 25 30

His Asn Leu Ile Ala Leu Phe Glu His Ala Lys Lys Pro Gly Leu Ala

```
        35                  40                  45

Ala His Ile Gln Thr His Arg Phe Pro Asp Arg Ile Leu Pro Arg Lys
     50                  55                  60

Phe Ala Leu Thr Thr Lys Ile Pro Asp Thr Lys Gly Cys His Lys Cys
 65                  70                  75                  80

Cys Ile Val Arg Asn Pro Tyr Thr Gly His Lys Tyr Leu Cys Gly Ala
                 85                  90                  95

Leu Gln Ser Gly Ile Val Leu Leu Gln Trp Tyr Glu Pro Met Gln Lys
            100                 105                 110

Phe Met Leu Ile Lys His Phe Asp Phe Pro Leu Pro Ser Pro Leu Asn
        115                 120                 125

Val Phe Glu Met Leu Val Ile Pro Glu Gln Glu Tyr Pro Met Val Cys
    130                 135                 140

Val Ala Ile Ser Lys Gly Thr Glu Ser Asn Gln Val Val Gln Phe Glu
145                 150                 155                 160

Thr Ile Asn Leu Asn Ser Ala Ser Ser Trp Phe Thr Glu Ile Gly Ala
                165                 170                 175

Gly Ser Gln Gln Leu Asp Ser Ile His Val Thr Gln Leu Glu Arg Asp
            180                 185                 190

Thr Val Leu Val Cys Leu Asp Lys Phe Val Lys Ile Val Asn Leu Gln
        195                 200                 205

Gly Lys Leu Lys Ser Ser Lys Lys Leu Ala Ser Glu Leu Ser Phe Asp
    210                 215                 220

Phe Arg Ile Glu Ser Val Val Cys Leu Gln Asp Ser Val Leu Ala Phe
225                 230                 235                 240

Trp Lys His Gly Met Gln Gly Lys Ser Phe Lys Ser Asp Glu Val Thr
                245                 250                 255

Gln Glu Ile Ser Asp Glu Thr Arg Val Phe Arg Leu Leu Gly Ser Asp
            260                 265                 270

Arg Val Val Val Leu Glu Ser Arg Pro Thr Glu Asn Pro Thr Ala His
        275                 280                 285

Ser Asn Leu Tyr Ile Leu Ala Gly His Glu Asn Ser Tyr
    290                 295                 300
```

<210> 4836
<211> 355
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (342)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (348)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (351)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (352)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4836
Phe Pro Gly Ser Gly Asn Met Ala Lys Asp Ala Gly Leu Ile Glu Ala
1 5 10 15

Asn Gly Glu Leu Lys Val Phe Ile Asp Gln Asn Leu Ser Pro Gly Lys
20 25 30

Gly Val Val Ser Leu Val Ala Val His Pro Ser Thr Val Asn Pro Leu
35 40 45

Gly Lys Gln Leu Leu Pro Lys Thr Phe Gly Gln Ser Asn Val Asn Ile
50 55 60

Ala Gln Gln Val Val Ile Gly Thr Pro Gln Arg Pro Ala Ala Ser Asn
65 70 75 80

Thr Leu Val Val Gly Ser Pro His Thr Pro Ser Thr His Phe Ala Ser
85 90 95

Gln Asn Gln Pro Ser Asp Ser Ser Pro Trp Ser Ala Gly Lys Arg Asn
100 105 110

Arg Lys Gly Glu Lys Asn Gly Lys Gly Leu Arg His Phe Ser Met Lys
115 120 125

```
Val Cys Glu Lys Val Gln Arg Lys Gly Thr Thr Ser Tyr Asn Glu Val
    130                 135                 140

Ala Asp Glu Leu Val Ala Glu Phe Ser Ala Ala Asp Asn His Ile Leu
145                 150                 155                 160

Pro Asn Glu Ser Ala Tyr Asp Gln Lys Asn Ile Arg Arg Arg Val Tyr
                165                 170                 175

Asp Ala Leu Asn Val Leu Met Ala Met Asn Ile Ile Ser Lys Glu Lys
            180                 185                 190

Lys Glu Ile Lys Trp Ile Gly Leu Pro Thr Asn Ser Ala Gln Glu Cys
        195                 200                 205

Gln Asn Leu Glu Val Glu Arg Gln Arg Arg Leu Glu Arg Ile Lys Gln
    210                 215                 220

Lys Gln Ser Gln Leu Gln Glu Leu Ile Leu Gln Gln Ile Ala Phe Lys
225                 230                 235                 240

Asn Leu Val Gln Arg Asn Arg His Ala Glu Gln Gln Ala Ser Arg Pro
                245                 250                 255

Pro Pro Pro Asn Ser Val Ile His Leu Pro Phe Ile Ile Val Asn Thr
            260                 265                 270

Ser Lys Lys Thr Val Ile Asp Cys Ser Ile Ser Asn Asp Lys Phe Glu
        275                 280                 285

Tyr Leu Phe Asn Phe Asp Asn Thr Phe Glu Ile His Asp Asp Ile Glu
    290                 295                 300

Val Leu Lys Arg Met Gly Met Ala Cys Gly Leu Glu Ser Gly Ser Cys
305                 310                 315                 320

Ser Ala Glu Asp Leu Lys Met Ala Arg Ser Leu Val Pro Lys Ala Leu
                325                 330                 335

Glu Pro Tyr Val Thr Xaa Met Ala Gln Gly Thr Xaa Gly Gly Xaa Xaa
            340                 345                 350

Leu Cys Gln
        355
```

<210> 4837
<211> 263
<212> PRT
<213> Homo sapiens

<400> 4837

```
Trp Ile Thr Tyr Gln Gly Phe Leu Ser Gln Trp Thr Leu Thr Thr Tyr
  1               5                  10                  15

Leu Asp Val Gln Arg Cys Leu Glu Tyr Leu Gly Tyr Leu Gly Tyr Ser
             20                  25                  30

Ile Leu Thr Glu Gln Glu Ser Gln Ala Ser Ala Val Thr Val Thr Arg
         35                  40                  45

Asp Lys Lys Ile Asp Leu Gln Lys Lys Gln Thr Gln Arg Asn Val Phe
     50                  55                  60

Arg Cys Asn Val Ile Gly Val Lys Asn Cys Gly Lys Ser Gly Val Leu
 65                  70                  75                  80

Gln Ala Leu Leu Gly Arg Asn Leu Met Arg Gln Lys Lys Ile Arg Glu
                 85                  90                  95

Asp His Lys Ser Tyr Tyr Ala Ile Asn Thr Val Tyr Val Tyr Gly Gln
            100                 105                 110

Glu Lys Tyr Leu Leu Leu His Asp Ile Ser Glu Ser Glu Phe Leu Thr
        115                 120                 125

Glu Ala Glu Ile Ile Cys Asp Val Val Cys Leu Val Tyr Asp Val Ser
    130                 135                 140

Asn Pro Lys Ser Phe Glu Tyr Cys Ala Arg Ile Phe Lys Gln His Phe
145                 150                 155                 160

Met Asp Ser Arg Ile Pro Cys Leu Ile Val Ala Ala Lys Ser Asp Leu
                165                 170                 175

His Glu Val Lys Gln Glu Tyr Ser Ile Ser Pro Thr Asp Phe Cys Arg
            180                 185                 190

Lys His Lys Met Pro Pro Pro Gln Ala Phe Thr Cys Asn Thr Ala Asp
        195                 200                 205

Ala Pro Ser Lys Asp Ile Phe Val Lys Leu Thr Thr Met Ala Met Tyr
    210                 215                 220

Pro His Val Thr Gln Ala Asp Leu Lys Ser Ser Thr Phe Trp Leu Arg
225                 230                 235                 240

Ala Ser Phe Gly Ala Thr Val Phe Ala Val Leu Gly Phe Ala Met Tyr
                245                 250                 255

Lys Ala Leu Leu Lys Gln Arg
```

260

<210> 4838
<211> 285
<212> PRT
<213> Homo sapiens

<400> 4838
Gly Arg Met Asn Trp Thr Gly Leu Tyr Thr Leu Leu Ser Gly Val Asn
1 5 10 15

Arg His Ser Thr Ala Ile Gly Arg Val Trp Leu Ser Val Ile Phe Ile
20 25 30

Phe Arg Ile Met Val Leu Val Val Ala Ala Glu Ser Val Trp Gly Asp
35 40 45

Glu Lys Ser Ser Phe Ile Cys Asn Thr Leu Gln Pro Gly Cys Asn Ser
50 55 60

Val Cys Tyr Asp Gln Phe Phe Pro Ile Ser His Val Arg Leu Trp Ser
65 70 75 80

Leu Gln Leu Ile Leu Val Ser Thr Pro Ala Leu Leu Val Ala Met His
85 90 95

Val Ala His Gln Gln His Ile Glu Lys Lys Met Leu Arg Leu Glu Gly
100 105 110

His Gly Asp Pro Leu His Leu Glu Glu Val Lys Arg His Lys Val His
115 120 125

Ile Ser Gly Thr Leu Trp Trp Thr Tyr Val Ile Ser Val Val Phe Arg
130 135 140

Leu Leu Phe Glu Ala Val Phe Met Tyr Val Phe Tyr Leu Leu Tyr Pro
145 150 155 160

Gly Tyr Ala Met Val Arg Leu Val Lys Cys Asp Val Tyr Pro Cys Pro
165 170 175

Asn Thr Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe
180 185 190

Thr Val Phe Met Leu Ala Ala Ser Gly Ile Cys Ile Ile Leu Asn Val
195 200 205

Ala Glu Val Val Tyr Leu Ile Ile Arg Ala Cys Ala Arg Arg Ala Gln
210 215 220

```
Arg Arg Ser Asn Pro Pro Ser Arg Lys Gly Ser Gly Phe Gly His Arg
225                 230                 235                 240

Leu Ser Pro Glu Tyr Lys Gln Asn Glu Ile Asn Lys Leu Leu Ser Glu
                245                 250                 255

Gln Asp Gly Ser Leu Lys Asp Ile Leu Arg Arg Ser Pro Gly Thr Gly
            260                 265                 270

Ala Gly Leu Ala Glu Lys Ser Asp Arg Cys Ser Ala Cys
        275                 280                 285
```

<210> 4839
<211> 45
<212> PRT
<213> Homo sapiens

<400> 4839

```
Gly Gln Asp Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln Arg Ile Ser
  1               5                  10                  15

Trp Ala Trp Trp Arg Ala Pro Val Ile Pro Ala Thr Arg Glu Ala Glu
             20                  25                  30

Ala Arg Glu Ser Leu Glu Pro Arg Arg Trp Arg Leu Gln
         35                  40                  45
```

<210> 4840
<211> 280
<212> PRT
<213> Homo sapiens

<400> 4840

```
Arg Ala Glu Ser Val Pro Ala His Pro Cys Gly Phe Pro Ala Pro Leu
  1               5                  10                  15

Pro Pro Thr Arg Met Met Glu Ser Lys Met Ile Ala Ala Ile His Ser
             20                  25                  30

Ser Ser Ala Asp Ala Thr Ser Ser Ser Asn Tyr His Ser Phe Val Thr
         35                  40                  45

Ala Ser Ser Thr Ser Val Asp Asp Ala Leu Pro Leu Pro Leu Pro Val
     50                  55                  60

Pro Gln Pro Lys His Ala Ser Gln Lys Thr Val Tyr Ser Ser Phe Ala
```

```
65                  70                  75                  80

Arg Pro Asp Val Thr Thr Glu Pro Phe Gly Pro Asp Asn Cys Leu His
                85                  90                  95

Phe Asn Met Thr Pro Asn Cys Gln Tyr Arg Pro Gln Ser Val Pro Pro
            100                 105                 110

His His Asn Lys Leu Glu Gln His Gln Val Tyr Gly Ala Arg Ser Glu
        115                 120                 125

Pro Pro Ala Ser Met Gly Leu Arg Tyr Asn Thr Tyr Val Ala Pro Gly
    130                 135                 140

Arg Asn Ala Ser Gly His His Ser Lys Pro Cys Ser Arg Val Glu Tyr
145                 150                 155                 160

Val Ser Ser Leu Ser Ser Ser Val Arg Asn Thr Cys Tyr Pro Glu Asp
                165                 170                 175

Ile Pro Pro Tyr Pro Thr Ile Arg Arg Val Gln Ser Leu His Ala Pro
            180                 185                 190

Pro Ser Ser Met Ile Arg Ser Val Pro Ile Ser Arg Thr Glu Val Pro
        195                 200                 205

Pro Asp Asp Glu Pro Ala Tyr Cys Pro Arg Pro Leu Tyr Gln Tyr Lys
    210                 215                 220

Pro Tyr Gln Ser Ser Gln Ala Arg Ser Asp Tyr His Val Thr Gln Leu
225                 230                 235                 240

Gln Pro Tyr Phe Glu Asn Gly Arg Val His Tyr Arg Tyr Ser Pro Tyr
                245                 250                 255

Ser Ser Ser Ser Ser Ser Tyr Tyr Ser Pro Asp Gly Ala Leu Cys Asp
            260                 265                 270

Val Asp Ala Tyr Gly Gln Ser Ser
        275                 280
```

<210> 4841
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4841

```
Ala Met Lys Asn Asn Asn Ile Lys Pro Tyr Gly Leu Ile Leu Lys Phe
  1               5                  10                  15

Ile Ile Leu Ile Gln Lys Leu Pro His Thr Lys Val Thr Glu Leu Pro
             20                  25                  30

Tyr Val Ser His Ile Val Xaa Glu His Lys Thr Leu Thr Thr Pro Leu
         35                  40                  45

Ile Val Ser Thr Leu Phe Cys Lys Tyr Ser Glu Tyr Phe Gly Phe Ile
     50                  55                  60

Leu Ser Arg Ile Phe Val Phe Asn Phe Ala Asn Glu Ile Phe Asn Asn
 65                  70                  75                  80
```

<210> 4842
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4842

```
Pro Ala Lys Gly Lys Lys Lys Cys Ser Pro His Ser Cys Lys Gly Leu
  1               5                  10                  15

Gln Leu Ala Thr Ala Asn Arg Lys Ile Lys Met Ile Glu Pro Phe Gly
             20                  25                  30

Asn Gln Tyr Ile Val Ala Arg Pro Val Tyr Ser Thr Asn Ala Phe Glu
         35                  40                  45

Glu Asn His Lys Lys Thr Gly Arg His His Lys Thr Phe Leu Asp His
     50                  55                  60

Leu Lys Val Cys Cys Asn Cys Ser Pro Gln Lys Ala Arg Glu Leu Ser
 65                  70                  75                  80

Ser Leu Xaa Phe Pro
                 85
```

<210> 4843
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4843
Leu Ser Ala Cys Phe Ala Tyr His Arg Asp Ile Ser Met Ala Val Pro
1 5 10 15

Pro Cys Arg Val Ala Tyr Gln Thr Asp Val Asp Cys Xaa Ile Ser Trp
20 25 30

Gln His Gln Ser Met Gly Cys Leu Thr Phe Trp Tyr Leu Ser Ser Asp
35 40 45

His Pro Tyr Pro Met Phe Ser Phe Lys His Tyr Pro Ala Ser Leu Phe
50 55 60

Ile Ile Arg Asn Ser Gly Pro Ser Val Trp Trp His Leu Glu Ser Phe
65 70 75 80

Val Pro

<210> 4844
<211> 430
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (397)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (417)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (429)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4844

```
Glu Pro Leu Ile Glu Leu Ser Asn Pro Gly Ala Ser Gly Ser Leu Phe
 1               5                  10                  15

Phe Val Thr Ser Asp Asp Glu Phe Ile Ile Lys Thr Val Gln His Lys
            20                  25                  30

Glu Ala Glu Phe Leu Gln Lys Leu Leu Pro Gly Tyr Tyr Met Asn Leu
        35                  40                  45

Asn Gln Asn Pro Arg Thr Leu Leu Pro Lys Phe Tyr Gly Leu Tyr Cys
    50                  55                  60

Met Gln Ser Gly Gly Ile Asn Ile Arg Ile Val Val Met Asn Asn Val
65                  70                  75                  80

Leu Pro Arg Ser Met Arg Met His Phe Thr Tyr Asp Leu Lys Gly Ser
                85                  90                  95

Thr Tyr Lys Arg Arg Ala Ser Arg Lys Glu Arg Glu Lys Ser Asn Pro
            100                 105                 110

Thr Phe Lys Asp Leu Asp Phe Leu Gln Asp Met His Glu Gly Leu Tyr
        115                 120                 125

Phe Asp Thr Glu Thr Tyr Asn Ala Leu Met Lys Thr Leu Gln Arg Asp
    130                 135                 140

Cys Arg Val Leu Glu Ser Phe Lys Ile Met Asp Tyr Ser Leu Leu Leu
145                 150                 155                 160

Gly Ile His Phe Leu Asp His Ser Leu Lys Glu Lys Glu Glu Glu Thr
                165                 170                 175

Pro Gln Asn Val Pro Asp Ala Lys Arg Thr Gly Met Gln Lys Val Leu
            180                 185                 190

Tyr Ser Thr Ala Met Glu Ser Ile Gln Gly Pro Gly Lys Ser Gly Asp
        195                 200                 205

Gly Ile Ile Thr Glu Asn Pro Asp Thr Met Gly Gly Ile Pro Ala Lys
    210                 215                 220

Ser His Arg Gly Glu Lys Leu Leu Leu Phe Met Gly Ile Ile Asp Ile
225                 230                 235                 240

Leu Gln Ser Tyr Arg Leu Met Lys Lys Leu Glu His Ser Trp Lys Ala
                245                 250                 255
```

```
Leu Val Tyr Asp Gly Asp Thr Val Ser Val His Arg Pro Ser Phe Tyr
            260                 265                 270

Ala Asp Arg Phe Leu Lys Phe Met Asn Ser Arg Val Phe Lys Lys Ile
        275                 280                 285

Gln Ala Leu Lys Ala Ser Pro Ser Lys Lys Arg Cys Asn Ser Ile Ala
    290                 295                 300

Ala Leu Lys Ala Thr Ser Gln Glu Ile Val Ser Ser Ile Ser Gln Glu
305                 310                 315                 320

Trp Lys Asp Glu Lys Arg Asp Leu Leu Thr Glu Gly Gln Ser Phe Ser
                325                 330                 335

Ser Leu Asp Glu Glu Ala Leu Gly Ser Arg His Arg Pro Asp Leu Val
            340                 345                 350

Pro Ser Thr Pro Ser Leu Phe Glu Ala Ala Ser Leu Ala Thr Thr Ile
        355                 360                 365

Ser Ser Ser Ser Leu Tyr Val Asn Glu His Tyr Pro His Asp Arg Pro
    370                 375                 380

Thr Leu Tyr Phe Lys Gln Gln Arg Val Thr Phe Gln Xaa Gln His Phe
385                 390                 395                 400

Thr Leu Gly Arg Gly Asp Leu Leu Leu Gly Pro Leu Gly Pro Asn Ile
                405                 410                 415

Xaa Gly Ser Cys Arg Val Thr Leu Phe Leu Trp Phe Xaa Arg
            420                 425                 430
```

<210> 4845
<211> 63
<212> PRT
<213> Homo sapiens

<400> 4845

```
Lys Ile Val Ser Phe Phe Phe Phe Tyr Arg Lys Leu Ser Leu Cys Asn
  1               5                  10                  15

Ser Val Ser Phe Arg Phe Leu Ser Cys Phe Cys Lys Leu Trp Glu Arg
             20                  25                  30

Leu Thr Met Gln Met Cys Gln Arg His Thr Val Gly Cys Asn Ile Asn
         35                  40                  45
```

```
Asn Phe Lys Cys Lys Phe Leu Trp Ile Asn Tyr Phe Tyr Ile Leu
     50                  55                  60
```

<210> 4846
<211> 128
<212> PRT
<213> Homo sapiens

<400> 4846

```
Ala Cys Pro Arg Pro Arg Thr Pro Asp Pro Ser His Pro Phe Gln Arg
  1               5                  10                  15

Pro Arg Ala Arg Pro Trp Thr Glu Leu Leu Val Leu Cys Arg Glu Thr
             20                  25                  30

Ile Gln Pro Lys Leu Trp Glu Ala Gln Ser Ile Glu Trp Ala Glu Ala
         35                  40                  45

Ala Gly Ala Glu Pro Gly Arg Val Leu Gly Val His Pro Ser Leu Arg
     50                  55                  60

Arg Gln Val Pro Gln Gly Pro Thr His Leu Lys Pro Ala Cys Thr Val
 65                  70                  75                  80

Glu Val Val Glu Val Asp Thr Pro Arg Gly Phe Ser Lys Ala Arg Leu
                 85                  90                  95

Ala Ala Pro Cys Ser Gly Lys Leu Asn Tyr Ser Arg Phe Arg Ser Ser
            100                 105                 110

Val Asp Ser His Gln Ser Gly Gly Val Leu Lys Glu Phe Tyr Val Asp
        115                 120                 125
```

<210> 4847
<211> 175
<212> PRT
<213> Homo sapiens

<400> 4847

```
His Glu Leu Thr Asp Ala Ala Ser Ile Ala Ala Ala Arg Gly Glu Met
  1               5                  10                  15

Ser Glu Val Arg Pro Leu Ser Arg Asp Ile Leu Met Glu Thr Leu Leu
             20                  25                  30
```

```
Tyr Glu Gln Leu Leu Glu Pro Pro Thr Met Glu Val Leu Gly Met Thr
         35                  40                  45

Asp Ser Glu Glu Asp Leu Asp Pro Met Glu Asp Phe Asp Ser Leu Glu
     50                  55                  60

Cys Met Glu Gly Ser Asp Ala Leu Ala Leu Arg Leu Ala Cys Ile Gly
 65                  70                  75                  80

Asp Glu Met Asp Val Ser Leu Arg Ala Pro Arg Leu Ala Gln Leu Ser
                 85                  90                  95

Glu Val Ala Met His Ser Leu Gly Leu Ala Phe Ile Tyr Asp Gln Thr
            100                 105                 110

Glu Asp Ile Arg Asp Val Leu Arg Ser Phe Met Asp Gly Phe Thr Thr
        115                 120                 125

Leu Lys Glu Asn Ile Met Arg Phe Trp Arg Ser Pro Asn Pro Gly Ser
    130                 135                 140

Trp Val Ser Cys Glu Gln Val Leu Leu Ala Leu Leu Leu Leu Leu Ala
145                 150                 155                 160

Leu Leu Leu Pro Leu Leu Ser Gly Gly Leu His Leu Leu Leu Lys
                165                 170                 175
```

<210> 4848
<211> 179
<212> PRT
<213> Homo sapiens

```
<400> 4848
Ser Thr Leu Arg Ile Pro Gly Pro Cys Phe Pro Ser Glu Lys Thr His
  1               5                  10                  15

Asn His Asp Pro Gln Pro Gly Asp Pro Asn Ser Arg Pro Ser Ser Pro
             20                  25                  30

Lys Pro Ala Gln Pro Ala Leu Lys Met Gln Val Leu Tyr Glu Phe Glu
         35                  40                  45

Ala Arg Asn Pro Arg Glu Leu Thr Val Val Gln Gly Glu Lys Leu Glu
     50                  55                  60

Val Leu Asp His Ser Lys Arg Trp Trp Leu Val Lys Asn Glu Ala Gly
 65                  70                  75                  80
```

```
Arg Ser Gly Tyr Ile Pro Ser Asn Ile Leu Glu Pro Leu Gln Pro Gly
                85                  90                  95

Thr Pro Gly Thr Gln Gly Gln Ser Pro Ser Arg Val Pro Met Leu Arg
            100                 105                 110

Leu Ser Ser Arg Pro Glu Glu Val Thr Asp Trp Leu Gln Ala Glu Asn
        115                 120                 125

Phe Ser Thr Ala Thr Val Arg Thr Leu Gly Ser Leu Thr Gly Ser Gln
    130                 135                 140

Leu Leu Arg Ile Arg Pro Gly Glu Leu Gln Met Leu Cys Pro Gln Glu
145                 150                 155                 160

Ala Pro Arg Ile Leu Ser Arg Leu Glu Ala Val Arg Arg Met Leu Gly
                165                 170                 175

Ile Ser Pro
```

<210> 4849
<211> 111
<212> PRT
<213> Homo sapiens

<400> 4849

```
Leu Arg Arg Ser Gly Leu Ser Arg Asp Ala Thr Leu Thr Cys Leu Val
  1               5                  10                  15

Pro Ser Ala Ala Phe Gly Cys Ala Gly Lys Leu Arg Arg Gln Trp Pro
            20                  25                  30

Arg Asp Pro Ala Cys Leu Arg Arg Pro Arg Leu Asp Ala Lys Glu Leu
        35                  40                  45

Gln His Pro Gly Asp Lys Met Pro Thr Gly Lys Gln Leu Ala Asp Ile
    50                  55                  60

Gly Tyr Lys Thr Phe Ser Thr Ser Met Met Leu Leu Thr Val Tyr Gly
65                  70                  75                  80

Gly Tyr Leu Cys Ser Val Arg Val Tyr His Tyr Phe Gln Trp Arg Arg
                85                  90                  95

Ala Gln Arg Gln Ala Ala Glu Glu Gln Lys Thr Ser Gly Ile Met
            100                 105                 110
```

<210> 4850
<211> 114
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4850
Pro Met Gly Arg Arg Leu Trp Arg Leu Leu Leu Ser Pro Gln Leu Pro
1 5 10 15

Ala Gly Gly Thr Val Ser Pro Phe Pro Gln Gly Thr Trp Leu Ser Gly
20 25 30

Gly Asn Ala His Phe Pro Gly Leu Asp Cys Gln Leu Phe Leu Ala Gly
35 40 45

Glu Glu Pro Cys Leu Ser Ala Pro Glu Pro Thr Val Arg Gly Xaa Ser
50 55 60

Arg Leu Gln Pro Leu Ala Gln Ser Gln Gln Pro Ala Lys His Thr Glu
65 70 75 80

Gly Asp Cys His Leu Pro Leu Pro Ala Ala Glu Pro Gln Arg Ser Asp
85 90 95

Gly Ser Tyr Thr Gly Gln Gly Phe Leu Leu Gly Ile Thr Ser His Arg
100 105 110

Asn Gln

<210> 4851
<211> 319
<212> PRT
<213> Homo sapiens

<400> 4851
Arg Ala Tyr Lys Pro Ser Arg Val Leu Arg Glu Leu Gln Leu Asp Lys
1 5 10 15

Asp Ser Val Trp His Gly Cys Gly Glu Val Leu Lys Ala Lys Tyr Lys
20 25 30

Gly Lys Ser Tyr Arg Ala Thr Val Glu Ile Val Lys Thr Ala Asp Arg

```
        35                  40                  45

Val Thr Glu Phe Cys Arg Gln Thr Cys Ile Lys Leu Glu Cys Cys Pro
     50                  55                  60

Asn Leu Phe Gly Pro Arg Met Val Leu Asp Lys Cys Ser Glu Asn Cys
 65                  70                  75                  80

Ser Val Leu Thr Lys Thr Lys Tyr Thr His Tyr Tyr Gly Lys Lys Lys
                 85                  90                  95

Asn Lys Arg Ile Gly Arg Pro Pro Gly Gly His Ser Asn Leu Ala Cys
            100                 105                 110

Ala Leu Lys Lys Ala Ser Lys Arg Arg Lys Arg Arg Lys Asn Val Phe
        115                 120                 125

Val His Lys Lys Lys Arg Ser Ser Ala Ser Val Asp Asn Thr Pro Ala
    130                 135                 140

Gly Ser Pro Gln Gly Ser Gly Gly Glu Asp Glu Asp Asp Pro Asp Glu
145                 150                 155                 160

Gly Asp Asp Asp Ser Leu Ser Glu Gly Ser Thr Ser Glu Gln Gln Asp
                165                 170                 175

Glu Leu Gln Glu Glu Ser Glu Met Ser Glu Lys Lys Ser Cys Ser Ser
            180                 185                 190

Ser Pro Thr Gln Ser Glu Ile Ser Thr Ser Leu Pro Pro Asp Arg Gln
        195                 200                 205

Arg Arg Lys Arg Glu Leu Arg Thr Phe Ser Phe Ser Asp Asp Glu Asn
    210                 215                 220

Lys Pro Pro Ser Pro Lys Glu Ile Arg Ile Glu Val Ala Glu Arg Leu
225                 230                 235                 240

His Leu Asp Ser Asn Pro Leu Lys Trp Ser Val Ala Asp Val Val Arg
                245                 250                 255

Phe Ile Arg Ser Thr Asp Cys Ala Pro Leu Ala Arg Ile Phe Leu Asp
            260                 265                 270

Gln Glu Ile Asp Gly Gln Ala Leu Leu Leu Leu Thr Leu Pro Thr Val
        275                 280                 285

Gln Glu Cys Met Asp Leu Lys Leu Gly Pro Ala Ile Lys Leu Cys His
    290                 295                 300

His Ile Glu Arg Ile Lys Phe Ala Phe Tyr Glu Gln Phe Ala Asn
```

305 310 315

<210> 4852
<211> 99
<212> PRT
<213> Homo sapiens

<400> 4852
Leu Pro Pro His His Pro Pro His Leu Phe Ser Gly Arg Val Gly Ile
1 5 10 15

Ala Ala Gly Gly Asp Phe Gly Ser Leu Ala Thr Pro Ala Arg Thr Ala
20 25 30

Gly Gln Pro Leu Cys Gly Asp Ala Trp Cys Pro Ile Cys Arg Pro Ser
35 40 45

Glu Glu Cys Thr Ala Phe Thr Phe Tyr Cys Val Arg Val His Pro Asp
50 55 60

Cys Ser Ile Gln Lys Ser Phe Phe Phe Pro His Arg Gln Ser Gly Asn
65 70 75 80

Asp Ser Phe Pro Asp Cys Phe Cys Leu Val Pro Gly Asn Leu Glu Ser
85 90 95

Ile Pro Gln

<210> 4853
<211> 59
<212> PRT
<213> Homo sapiens

<400> 4853
Asp Pro Ser Ile Leu Glu Thr Asn Ala Pro Leu Lys Ser Asn Ile Tyr
1 5 10 15

Thr Ala Val Asn Ile Cys Lys Val Ser Met Phe Asn Ser Leu Arg Ile
20 25 30

Leu Arg Ile Met Asp Leu Leu Ala Lys Ile Pro Leu Lys Gln Leu Ser
35 40 45

His Ile Ser Asn Phe Tyr Leu Gly Lys Gln Val
50 55

Val Leu Phe Tyr Phe Ala Leu Leu Ile Lys Glu Leu Val Glu Lys Lys
65 70 75 80

Lys Lys Lys Thr

<210> 4856
<211> 105
<212> PRT
<213> Homo sapiens

<400> 4856
Val Asn Ser Arg Arg Gly Gly Lys Arg Ser Cys Arg Gly Gly Lys Asn
1 5 10 15

Lys Pro Val Pro Thr Thr Glu Thr Pro Asn His Leu Ser Pro Val Asp
20 25 30

Gly Pro Ala Lys Thr Ser Thr Gln Gln Asp Tyr Arg Gly Arg Asn Pro
35 40 45

Lys Cys Trp Cys Gly Arg Ser Lys Thr Trp Gly Glu Phe Leu Asp Leu
50 55 60

Glu Leu Arg Ala Met Gly Leu Asp Met Thr Gly Thr Asn Ser Cys His
65 70 75 80

Met Phe Met Val Arg Cys His Thr Phe Ser Ala Val Leu Phe His Gln
85 90 95

Tyr Leu Pro Gly Lys Gln Arg Met Cys
100 105

<210> 4857
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4857
Arg Phe Thr Ala Ser Ser Ser Ser Gly Met Val Pro Lys Leu Pro Ala
1 5 10 15

Gly Lys Met Asn Asn Arg Asp Leu Lys Pro Gln Pro Asp Ile Val Leu
20 25 30

Leu Pro Leu Pro Thr Ala Tyr Glu Leu Asp Ser Thr Lys Leu Lys Ser
35 40 45

Pro Leu Ile Thr Ser Pro Met Phe Arg Asn Val Pro Thr Ala Asn Pro
50 55 60

Thr Glu Pro Gly Ile Arg Arg Val Pro Gly Ala Ser Xaa Val Ile Arg
65 70 75 80

Glu Ser Ser Ser Thr Thr Gly Met Val Val Gly Ile Val Ala Ala Ala
85 90 95

Ala Leu Cys Ile Leu Ile Leu Leu Tyr Ala Met Tyr Lys Tyr Arg Asn
100 105 110

Arg Asp Glu Gly Ser Tyr Gln Val Asp Glu Thr Arg Asn Tyr Ile Ser
115 120 125

Asn Ser Ala Gln Ser Asn Gly Thr Leu Met Lys Gly Glu Ser Ser Xaa
130 135 140

Xaa Arg Arg Ala Gly His Lys Lys Pro Glu Lys Thr Xaa Gly Gln Gly
145 150 155 160

Lys Tyr Leu Thr Trp
165

<210> 4858
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4858
Ser Leu Ala Lys His Leu Asn His Leu Ser Ile Leu Ser Trp Xaa Ile
1 5 10 15

Ile Ile Lys Ala Gln Asn Asn Leu Leu Leu Glu Asn Met Cys Phe Xaa
20 25 30

Asn Glu Xaa Lys Xaa Ile Lys Lys Xaa Lys Lys Gly Ala Ala Gly Leu
35 40 45

<210> 4859
<211> 86
<212> PRT
<213> Homo sapiens

<400> 4859
Glu Gly Met Gly His Thr Ser Pro Arg Ala Asp Pro Ala Gly Gly Ser
1 5 10 15

Pro Gly Ala Gly Ser Cys Arg Pro Gly Ala Gly Pro Cys His Pro Gly

```
            20                  25                  30

Arg Ala Arg Asp Met Ala Gly Pro Gly His Pro Gly Ala Gly Leu Gly
         35                  40                  45

Arg Pro Gly Arg His Arg Glu Gly Arg Asp Gly Arg Pro Arg Pro Ser
     50                  55                  60

Ala Val Pro Ala Thr Pro Met His Arg Ser Ser Ser Leu Pro His Pro
 65                  70                  75                  80

Lys Ala Val Ala Gly Ala
                85
```

<210> 4860
<211> 144
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4860

```
His Arg Ala Xaa Ser Glu Ala Glu Met Gln Trp Arg Leu Gln Val Asn
  1               5                  10                  15

Arg Leu Gln Glu Leu Ile Asp Gln Leu Glu Cys Lys Ala Pro Arg Leu
             20                  25                  30

Glu Pro Leu Arg Glu Glu Asp Leu Ala Lys Gly Pro Asp Leu His Ile
         35                  40                  45

Leu Met Ala Gln Arg Gln Val Gln Val Ala Glu Glu Gly Leu Gln Asp
     50                  55                  60

Phe His Arg Ala Leu Arg Cys Tyr Val Asp Phe Thr Gly Ala Gln Ser
 65                  70                  75                  80

His Cys Leu His Val Ser Ala Gln Lys Met Leu Asp Gly Ala Ser Phe
                85                  90                  95

Thr Leu Tyr Glu Phe Trp Gln Asp Glu Ala Ser Trp Arg Arg His Gln
            100                 105                 110

Gln Ser Pro Gly Ser Lys Ala Phe Gln Arg Ile Leu Ile Asp His Cys
        115                 120                 125
```

```
Gly Pro Arg Thr Pro Ser Pro Leu Cys Ser Ser Gln Pro Pro Gly Gly
    130                 135                 140
```

<210> 4861
<211> 595
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (392)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (393)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (571)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4861

```
Leu Ile Gln Asn Val Thr Gln Asn Asp Thr Gly Phe Tyr Thr Leu His
  1               5                  10                  15

Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg
             20                  25                  30

Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys
         35                  40                  45

Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Thr
     50                  55                  60

Gln Asp Ala Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val
 65                  70                  75                  80

Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe
                 85                  90                  95

Asn Val Thr Arg Asn Asp Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn
            100                 105                 110

Pro Val Ser Ala Arg Arg Ser Asp Ser Val Ile Leu Asn Val Leu Tyr
```

```
        115                 120                 125

Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser
    130                 135                 140

Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala
145                 150                 155                 160

Gln Tyr Ser Trp Phe Val Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu
                165                 170                 175

Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys
            180                 185                 190

Gln Ala His Asn Ser Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr
        195                 200                 205

Ile Thr Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile Thr Ser Asn Asn
    210                 215                 220

Ser Asn Pro Val Glu Asp Glu Asp Ala Val Ala Leu Thr Cys Glu Pro
225                 230                 235                 240

Glu Ile Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu
                245                 250                 255

Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr
            260                 265                 270

Leu Leu Ser Val Thr Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile
        275                 280                 285

Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn Val
    290                 295                 300

Leu Tyr Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr
305                 310                 315                 320

Arg Pro Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro
                325                 330                 335

Pro Ala Gln Tyr Ser Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr
            340                 345                 350

Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr
        355                 360                 365

Thr Cys Gln Ala Asn Asn Ser Ala Ser Gly His Ser Arg Thr Thr Val
    370                 375                 380

Lys Thr Ile Thr Val Ser Ala Xaa Xaa Pro Lys Pro Ser Ile Ser Ser
```

385 390 395 400

Asn Asn Ser Lys Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys
405 410 415

Glu Pro Glu Ala Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln
420 425 430

Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr
435 440 445

Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys
450 455 460

Gly Ile Gln Asn Ser Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu
465 470 475 480

Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp Ser
485 490 495

Ser Tyr Leu Ser Gly Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser
500 505 510

Asn Pro Ser Pro Gln Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln
515 520 525

His Thr Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly
530 535 540

Thr Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser
545 550 555 560

Ile Val Lys Ser Ile Thr Val Ser Ala Ser Xaa Thr Ser Pro Gly Leu
565 570 575

Ser Ala Gly Ala Thr Val Gly Ile Met Ile Gly Val Leu Val Gly Val
580 585 590

Ala Leu Ile
595

<210> 4862
<211> 134
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4862

```
Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ala Leu Lys Glu
  1               5                  10                  15

Val Phe Lys Glu Tyr Leu Ile Glu Leu Xaa Xaa Leu Gln His Phe Gln
             20                  25                  30

Gly Asn Met Met Asp Phe Leu Ala Phe Lys Glu Arg Leu Tyr Gly Pro
         35                  40                  45

Leu Gln Ala Tyr Leu Arg Gln Asn Asp Leu Asp Ile Glu Glu Glu Glu
     50                  55                  60

Glu Glu His Phe Glu Val Ile Asn Asp Glu Val Lys Val Val Ala Arg
 65                  70                  75                  80

Lys His Gly Gln Pro Gly Thr Pro Val Ala Ile Ala Thr Xaa Xaa Pro
                 85                  90                  95

Pro Arg Thr Ser Ala Ala Phe Pro Ala Gln Gln Gln Pro Leu Gln Val
            100                 105                 110

Leu Ser Asp Gly Ser Thr Val Gln Leu Pro Arg Leu Ser Ser Leu Gly
        115                 120                 125

Phe Glu Asp Ser Met Cys
    130
```

<210> 4863
<211> 209
<212> PRT
<213> Homo sapiens

<400> 4863

```
Leu Val Pro Arg Pro Arg Pro Arg Gln Leu Cys Ala Val Ile His Ser
  1               5                  10                  15

Leu Leu Arg Pro Gly Ala Pro Phe Pro Ala Arg Arg Arg Ala Arg Gln
             20                  25                  30

Leu Gly Val Gln Arg Pro Arg Asn His Glu Gln Val Ser Arg Ser Ser
         35                  40                  45

Glu Ala Pro Gly Thr Pro Ala His Ala Met Ala Asp Ser Glu Arg Leu
     50                  55                  60

Ser Ala Pro Gly Cys Trp Ala Ala Cys Thr Asn Phe Ser Arg Thr Arg
 65                  70                  75                  80

Lys Gly Ile Leu Leu Phe Ala Glu Ile Ile Leu Cys Leu Val Ile Leu
                 85                  90                  95

Ile Cys Phe Ser Ala Ser Thr Pro Gly Tyr Ser Ser Leu Ser Val Ile
            100                 105                 110

Glu Met Ile Leu Ala Ala Ile Phe Phe Val Val Tyr Met Cys Asp Leu
        115                 120                 125

His Thr Lys Ile Pro Phe Ile Asn Trp Pro Trp Ser Asp Phe Phe Arg
    130                 135                 140

Thr Leu Ile Ala Ala Ile Leu Tyr Leu Ile Thr Ser Ile Val Val Leu
145                 150                 155                 160

Val Glu Arg Gly Asn His Ser Lys Ile Val Ala Gly Val Leu Gly Leu
                165                 170                 175

Ile Ala Thr Cys Leu Phe Gly Tyr Asp Ala Tyr Val Thr Phe Pro Val
            180                 185                 190

Arg Gln Pro Arg His Thr Ala Ala Pro Thr Asp Pro Ala Asp Gly Pro
        195                 200                 205

Val
```

<210> 4864
<211> 129
<212> PRT
<213> Homo sapiens

<400> 4864
Val Cys Val Arg Val Arg Gly Arg Asn Arg Ser Ala Arg Ser Leu Pro
1 5 10 15

Leu Glu Gln Cys Leu Pro Gln Tyr Phe Cys Arg Gly Lys Asp Arg Asn
20 25 30

Ser Leu Leu Gly Phe Leu Gln Ser Pro Cys Thr Cys Gln Ser Phe Ser
35 40 45

Tyr Gln Cys Lys Gly Asn Pro Glu Leu Arg Phe Glu Leu Ser His His
50 55 60

Leu His Gly Gln Ile Ser Pro Leu Pro Lys Gly Ser Phe Arg Leu Trp
65 70 75 80

Val Tyr Leu Phe Leu His Ala Ser Ser Trp Gln Cys Pro Val Glu Ala
85 90 95

Tyr Leu Pro Ile Cys Val Cys Ile His Ser Leu Lys Thr Thr Arg Gln
100 105 110

Lys Lys Lys Lys Lys Thr Arg Gly Gly Ala Arg Tyr Pro Ile Arg Ala
115 120 125

Ile

<210> 4865
<211> 316
<212> PRT
<213> Homo sapiens

<400> 4865
Cys Met Asp Phe Gly Val Leu Val Pro Thr Ala Tyr Met Phe Trp Gly
1 5 10 15

Leu Leu Ser Cys Ser Leu Pro Thr Phe Cys Val Met Ser Val Pro Gly
20 25 30

Arg Trp Pro Pro Ala Arg Trp Arg Leu Ser Ile Leu Ala Val Ser Ile
35 40 45

Met Pro Cys Val Cys Leu Ala Ser Leu Leu Gln Ile Leu Trp Thr Arg
50 55 60

Ser Ser Ser Pro Ala His His Leu Ala Ser Pro Phe Leu Cys Val Gln
65 70 75 80

```
Ile Trp Gln Cys Gly Gly Val Leu Glu Thr His Pro Cys Ser His Val
                 85                  90                  95

Gly His Val Phe Pro Lys Gln Ala Pro Tyr Ser Arg Asn Lys Ala Leu
            100                 105                 110

Ala Asn Ser Val Arg Ala Ala Glu Val Trp Met Asp Glu Phe Lys Glu
        115                 120                 125

Leu Tyr Tyr His Arg Asn Pro Arg Ala Arg Leu Glu Pro Phe Gly Asp
    130                 135                 140

Val Thr Glu Arg Lys Gln Leu Arg Asp Lys Leu Gln Cys Lys Asp Phe
145                 150                 155                 160

Lys Trp Phe Leu Glu Thr Val Tyr Pro Glu Leu His Val Pro Glu Asp
                165                 170                 175

Arg Pro Gly Phe Phe Gly Met Leu Gln Asn Lys Gly Leu Thr Asp Tyr
            180                 185                 190

Cys Phe Asp Tyr Asn Pro Pro Asp Glu Asn Gln Ile Val Gly His Gln
        195                 200                 205

Val Ile Leu Tyr Leu Cys His Gly Met Gly Gln Asn Gln Phe Phe Glu
    210                 215                 220

Tyr Thr Ser Gln Lys Glu Ile Arg Tyr Asn Thr His Gln Pro Glu Gly
225                 230                 235                 240

Cys Ile Ala Val Glu Ala Gly Met Asp Thr Leu Ile Met His Leu Cys
                245                 250                 255

Glu Glu Thr Ala Pro Glu Asn Gln Lys Phe Ile Leu Gln Glu Asp Gly
            260                 265                 270

Ser Leu Phe His Glu Gln Ser Lys Lys Cys Val Gln Ala Ala Arg Lys
        275                 280                 285

Glu Ser Ser Asp Ser Phe Val Pro Leu Leu Arg Asp Cys Thr Asn Ser
    290                 295                 300

Asp His Gln Lys Trp Phe Phe Lys Glu Arg Met Leu
305                 310                 315
```

<210> 4866
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4866

```
Lys Ala Arg Arg Arg Gly Thr Met Ala Ala Ala Ala Asp Glu Arg Ser
  1               5                  10                  15

Pro Glu Asp Gly Glu Asp Glu Glu Glu Glu Glu Gln Leu Val Leu Val
             20                  25                  30

Glu Leu Ser Gly Ile Ile Asp Ser Xaa Phe Leu Ser Lys Cys Glu Asn
         35                  40                  45

Lys Cys Lys Val Leu Gly Ile Asp Thr Glu Arg Pro Ile Leu Gln Val
     50                  55                  60

Asp Ser Cys Val Phe Ala Gly Glu Tyr Glu Asp Thr Leu Gly Thr Cys
 65                  70                  75                  80

Val Ile Phe Glu Glu Asn Val Glu His Ala Asp Thr Glu Gly Asn Asn
                 85                  90                  95

Lys Thr Val Leu Lys Tyr Lys Cys His Thr Met Lys Lys Leu Ser Met
            100                 105                 110

Thr Arg Thr Leu Leu Thr Glu Lys Lys Glu Gly Glu Glu Asn Ile Gly
        115                 120                 125

Gly Val Glu Trp Leu Gln Ile Lys Asp Asn Asp Phe Ser Tyr Arg Pro
    130                 135                 140

Asn Met Ile Cys Asn Phe Leu His Glu Asn Glu Asp Glu Glu Val Val
145                 150                 155                 160

Ala Ser Ala Pro Asp Lys Ser Leu Glu Leu Glu Glu Glu Glu Ile Gln
                165                 170                 175

Met Asn Asp Ser Ser Asn Leu Ser Cys Glu Gln Glu Lys Pro Met His
            180                 185                 190

Leu Glu Ile Glu Asp Ser Gly Pro Leu Ile Asp Ile Pro Ser Glu Thr
        195                 200                 205

Glu Gly Ser Val Phe Met Glu Thr Gln Met Leu Pro
    210                 215                 220
```

<210> 4867
<211> 88
<212> PRT
<213> Homo sapiens

<400> 4867
Lys Thr Leu Phe Thr Tyr Ser Phe His Gly Tyr Asn Thr Leu Ala Asp
1 5 10 15

Phe Leu Leu Ala Leu Gly Ala Met Ile Leu Ile Thr Phe Cys Lys Val
20 25 30

Thr Asn Val Ile His Ser Thr Leu Cys Gly Ser His Leu Phe Arg Leu
35 40 45

Met Cys Phe Gly Glu Arg Lys Lys Phe Leu Ala Glu Tyr Tyr Phe Glu
50 55 60

Leu Ser Arg Thr Leu Ser His Gln Arg Gln Phe Phe Ser Val Gln Phe
65 70 75 80

Pro Ile Pro Asp Asn Leu Leu Lys
85

<210> 4868
<211> 64
<212> PRT
<213> Homo sapiens

<400> 4868
Ser Leu Ile Cys Tyr Val Gln Ser Leu Lys Ala Thr Thr His Phe Phe
1 5 10 15

Leu Lys Val Asp Ala Phe Ser Ala Val Leu Glu Ser Val Phe Cys Phe
20 25 30

Trp Gln Glu Ser Cys Lys Leu Cys Ile Leu Lys Gln Met Gln Lys Val
35 40 45

Val Leu Cys Lys Thr Phe Val Phe Cys Leu Ser Gln Ile Asn Ile Leu
50 55 60

<210> 4869
<211> 66

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4869
Met Cys Arg Leu Cys Ile Cys Val Asn Ile Tyr Thr Pro Arg Cys His
1 5 10 15

Ser Lys Cys Leu Glu Ile Thr Val His Thr Cys Xaa Leu Pro Ser Ser
20 25 30

Leu Glu Leu Leu Ser Cys Asn Met Ala Leu Lys Asn Tyr Pro Ile Ser
35 40 45

Xaa Val Leu Cys Leu Gly Asn Met Val Asn Trp Arg Ile Leu Thr His
50 55 60

Ser Val
65

<210> 4870
<211> 81
<212> PRT
<213> Homo sapiens

<400> 4870
Arg His Leu Leu Ile His Gly Leu Tyr Arg Asn Glu Ala Gly Cys Asn
1 5 10 15

Thr Asn Leu Glu Ser Pro Ser Trp Arg Thr Ile Lys Leu Phe Lys Asp
20 25 30

His Pro Trp Pro Gly Thr Val Val His Thr Cys Asn Pro Ser Thr Leu
35 40 45

Gly Gly Leu Gly Arg Gln Thr Glu Leu Arg Ser Leu Arg Pro Ala Trp
50 55 60

Ala Thr Trp Gln Lys Pro Thr Ser Thr Lys Ser Thr Lys Ile Ser Arg
65 70 75 80

Ala

<210> 4871
<211> 141
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4871
Ala Gly Gln Arg His Ser Pro Trp Pro Leu Ile Ala Leu Leu Val Arg
1 5 10 15

Ala Asp Gly Xaa Pro Arg Ser Val Val Pro Ala Trp Xaa Thr Glu Ala
20 25 30

Pro Xaa Ala Thr Leu Glu Xaa Arg Phe Thr Pro His Ala Glu Met Asp
35 40 45

Leu Gly Gln Leu Ser Ser Gln Asp Val Gly Gln Ala Ser Phe Lys Tyr
50 55 60

Phe Gln Ser Ala Glu Glu Ala Lys Arg Ala Ile Glu Ala Val Leu Ser
65 70 75 80

Ala Asp Pro Arg Ser Val Tyr Arg Arg Lys Leu Cys Gln Asp Arg Leu
85 90 95

Phe Tyr Phe Thr Val Asp Ile Ala His Val Thr Cys Trp Phe Gly Asp

```
          100                 105                 110

Gly Phe Ala Glu Val Leu Arg Ile Lys Pro Ala Ser Glu Pro Val His
        115                 120                 125

Met Thr Gly Pro Val Gly Ser Leu Val Ser Leu Gly Ser
    130                 135                 140



<210> 4872
<211> 241
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4872
Val Ser Val Gly Gly Leu Ile Xaa Asn Leu Ile Gly Ile Cys Ala Phe
  1               5                  10                  15

Ser His Ala His Ser His Ala His Gly Ala Ser Gln Gly Ser Cys His
             20                  25                  30

Ser Ser Asp His Ser His Ser His His Met His Gly His Ser Asp His
         35                  40                  45

Gly His Gly His Ser His Gly Ser Ala Gly Gly Gly Met Asn Ala Asn
     50                  55                  60

Met Arg Gly Val Phe Leu His Val Leu Ala Asp Thr Leu Gly Ser Ile
 65                  70                  75                  80

Gly Val Ile Val Ser Thr Val Leu Ile Glu Gln Phe Gly Trp Phe Ile
                 85                  90                  95

Ala Asp Pro Leu Cys Ser Leu Phe Ile Ala Ile Leu Ile Phe Leu Ser
            100                 105                 110

Val Val Pro Leu Ile Lys Asp Ala Cys Gln Val Leu Leu Leu Arg Leu
        115                 120                 125

Pro Pro Glu Tyr Glu Lys Glu Leu His Ile Ala Leu Glu Lys Ile Gln
    130                 135                 140

Lys Ile Glu Gly Leu Ile Ser Tyr Arg Asp Pro His Phe Trp Arg His
145                 150                 155                 160
```

```
Ser Ala Ser Ile Val Ala Gly Thr Ile His Ile Gln Val Thr Ser Asp
                165                 170                 175

Val Leu Glu Gln Arg Ile Val Gln Gln Val Thr Gly Ile Leu Lys Asp
            180                 185                 190

Ala Gly Val Asn Asn Leu Thr Ile Gln Val Glu Lys Glu Ala Tyr Phe
        195                 200                 205

Gln His Met Ser Gly Leu Ser Thr Gly Phe His Asp Val Leu Ala Met
    210                 215                 220

Thr Lys Gln Met Glu Ser Met Lys Tyr Cys Lys Asp Gly Thr Tyr Ile
225                 230                 235                 240

Met
```

<210> 4873
<211> 375
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4873

```
Ser Phe Gly Glu Arg Ala Pro Ser Thr Arg Ser Gly Asp Pro Leu Val
  1               5                  10                  15

Ala Val Leu Pro Thr Arg Thr Arg Val Pro Gln Ala Ser Arg Cys Pro
            20                  25                  30

Ala Gly Ser Ser Cys Pro Thr Pro Gly Ala Arg Pro Pro Ala Ser Pro
        35                  40                  45

Gly Pro Leu Pro Arg Pro Ser Ser Arg Arg Ala Arg Ser Met Ala Pro
    50                  55                  60

Pro Gln Val Leu Ala Phe Gly Leu Leu Leu Ala Ala Ala Thr Ala Thr
65                  70                  75                  80

Phe Ala Ala Ala Gln Glu Glu Cys Val Cys Glu Asn Tyr Lys Leu Ala
                85                  90                  95

Val Asn Cys Phe Val Asn Asn Asn Arg Gln Cys Gln Cys Thr Ser Val
            100                 105                 110
```

```
Gly Ala Gln Asn Thr Val Ile Cys Ser Lys Leu Ala Ala Lys Cys Leu
        115                 120                 125

Val Met Lys Ala Glu Met Asn Gly Ser Lys Leu Gly Arg Arg Ala Lys
    130                 135                 140

Pro Glu Gly Ala Leu Gln Asn Asn Asp Gly Leu Tyr Asp Pro Asp Cys
145                 150                 155                 160

Asp Glu Ser Gly Leu Phe Lys Ala Lys Gln Cys Asn Gly Thr Ser Xaa
                165                 170                 175

Cys Trp Cys Val Asn Thr Ala Gly Val Arg Arg Thr Asp Lys Asp Thr
            180                 185                 190

Glu Ile Thr Cys Ser Glu Arg Val Arg Thr Tyr Trp Ile Ile Ile Glu
        195                 200                 205

Leu Lys His Lys Ala Arg Glu Lys Pro Tyr Asp Ser Lys Ser Leu Arg
    210                 215                 220

Thr Ala Leu Gln Lys Glu Ile Thr Thr Arg Tyr Gln Leu Asp Pro Lys
225                 230                 235                 240

Phe Ile Thr Ser Ile Leu Tyr Glu Asn Asn Val Ile Thr Ile Asp Leu
                245                 250                 255

Val Gln Asn Ser Ser Gln Lys Thr Gln Asn Asp Val Asp Ile Ala Asp
            260                 265                 270

Val Ala Tyr Tyr Phe Glu Lys Asp Val Lys Gly Glu Ser Leu Phe His
        275                 280                 285

Ser Lys Lys Met Asp Leu Thr Val Asn Gly Glu Gln Leu Asp Leu Asp
    290                 295                 300

Pro Gly Gln Thr Leu Ile Tyr Tyr Val Asp Glu Lys Ala Pro Glu Phe
305                 310                 315                 320

Ser Met Gln Gly Leu Lys Ala Gly Val Ile Ala Val Ile Val Val Val
                325                 330                 335

Val Ile Ala Val Val Ala Gly Ile Val Val Leu Val Ile Ser Arg Lys
            340                 345                 350

Lys Arg Met Ala Lys Tyr Glu Lys Ala Glu Ile Lys Glu Met Gly Glu
        355                 360                 365

Met His Arg Glu Leu Asn Ala
    370                 375
```

<210> 4874
<211> 106
<212> PRT
<213> Homo sapiens

<400> 4874
Ile Asn Gln Gln Leu Ala Leu Tyr Ile Trp Lys Ser Cys Arg His Ser
1 5 10 15

Met Pro Ala Tyr Glu Ser Ser Leu Glu Trp Gly Cys Thr Leu Gln Arg
20 25 30

His Arg Gly Arg Ala Ala Lys Thr Met Arg Val Tyr Phe Phe His Gln
35 40 45

Cys Asp Leu Asn Val Arg His Arg Val Lys Gly Asp Tyr Phe Gly Ala
50 55 60

Val Lys Phe Asn Glu Tyr Pro Ala Gly Phe Trp Thr Cys His Trp Leu
65 70 75 80

Leu Ala Pro Leu Phe Cys Pro Ile Leu Leu Tyr Gly Met Gly Ala Ser
85 90 95

Ser Ser Asn Ala Cys Thr Leu Ile Val Ser
100 105

<210> 4875
<211> 91
<212> PRT
<213> Homo sapiens

<400> 4875
Gln Ser Ala Met Ser Ser Arg Pro Leu Glu Ser Pro Pro Pro Tyr Arg
1 5 10 15

Pro Asp Glu Phe Lys Pro Asn His Tyr Ala Pro Ser Asn Asp Ile Tyr
20 25 30

Gly Gly Glu Met His Val Arg Pro Met Leu Ser Gln Pro Ala Tyr Ser
35 40 45

Phe Tyr Pro Glu Asp Glu Ile Leu His Phe Tyr Lys Trp Thr Ser Pro
50 55 60

Pro Gly Val Ile Arg Ile Leu Ser Met Leu Ile Ile Val Met Cys Ile

65 70 75 80

Ala Ile Phe Ala Cys Val Ala Ser Arg Leu Pro
85 90

<210> 4876
<211> 88
<212> PRT
<213> Homo sapiens

<400> 4876
Tyr Arg Lys Leu Phe Phe Pro Gln Leu Phe Glu Gln His Ser Ser Phe
1 5 10 15

Glu Asn Ser Cys Arg Ser Gln Phe Phe Val Thr Val Val Gln Ile Leu
20 25 30

Cys Phe Leu Ser Leu Met Lys Ser Ser Ile Glu Ala Ile Phe His Thr
35 40 45

Met Cys Tyr Ile Cys Val Arg Arg Cys Val Asn Ile Lys Ser His Thr
50 55 60

His Ile Tyr Thr His Val Lys Ile Tyr Ile Tyr Ile Tyr Ala Cys Glu
65 70 75 80

Val Glu Ser Leu Pro Phe Pro Ile
85

<210> 4877
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4877

```
Lys Cys Trp Tyr Tyr Tyr Phe His Tyr Arg Ala Phe Gly Pro Leu Ile
 1               5                  10                  15

Met Leu Arg Trp Ala Asp Pro Ser Xaa Phe Cys Xaa Arg Val Ile Leu
            20                  25                  30

Gly Arg Val Phe Ser Ser Thr Val Lys Val Arg Gln Ser Gly Ser Val
        35                  40                  45

Thr Gly Asp Trp Asp Ile Trp Asn Lys Leu Arg Trp Asp Thr His Ser
    50                  55                  60

Glu Glu Arg Leu His Gly Ile Leu Trp Gly Thr Asn Tyr Cys Xaa Ile
65                  70                  75                  80

Thr Ser Asp Val Asn Met Ala His
                85
```

<210> 4878
<211> 86
<212> PRT
<213> Homo sapiens

<400> 4878

```
Gly Thr Lys Leu Asp Gly His Gln Thr Gln Gly Phe Val Lys Ile Arg
 1               5                  10                  15

Pro Pro Ile Pro Leu Thr Gly Ser Val Arg Cys Val Lys Leu Leu Ser
            20                  25                  30

Pro Val His His Ala Ser Met Ser Pro Gln Asp Trp Asp Leu Ser Leu
        35                  40                  45

Pro Gly Ser Leu Ser Leu Gly Ala Asp Met Glu Pro Ser Leu Arg Asp
    50                  55                  60

Gln Val Asp Ala Glu Ala His Pro Val Arg Ala Pro Leu Leu Ala Pro
65                  70                  75                  80

Phe Thr Leu Lys Leu Ile
                85
```

<210> 4879
<211> 106

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4879
Phe Cys Ser Trp Phe Ser Leu Gln Ala Leu Ala Lys Pro Cys Pro Arg
1 5 10 15

Ser Pro Gln Thr Leu Arg Ala His Asp Gln Lys Glu Lys Glu Ser Gln
20 25 30

Val Gly Glu Glu Gln Gly Pro Gln Leu His Ser Pro Pro Leu Xaa Pro
35 40 45

Glu Gly Pro Pro Trp Ala Ala Trp Asn Pro Leu Lys Leu Pro Pro Pro
50 55 60

Gln His Ser Ser Gly Ala Val Pro Gly Ser Ala Cys Ser Pro Trp Ala
65 70 75 80

Gly Ser Val Pro Ala Ala Pro Pro Ser Val Cys Tyr Leu Ile Tyr Trp
85 90 95

Asn Leu His Ser Gln Ala Leu Ala His Arg
100 105

<210> 4880
<211> 74
<212> PRT
<213> Homo sapiens

<400> 4880
Asn Val Ala Cys Asn Thr Val Leu Pro Ala Lys Phe Ser Thr Phe Cys
1 5 10 15

Asn Leu Phe Tyr Phe Phe Gly Cys Lys Ala Phe Leu Leu Ser Ile Val
20 25 30

Ile Leu Tyr Met Phe Cys Pro Ser Cys Ile Val Met Phe Gln Ser Ile
35 40 45

Ile Gln Leu Trp Leu Leu Lys Ser Tyr Ser Cys Glu Asp Leu Pro Leu
50 55 60

Phe Leu Leu Asp Cys Phe Ser Val Leu Tyr

65 70

<210> 4881
<211> 201
<212> PRT
<213> Homo sapiens

<400> 4881
Cys Asn Leu Ala Lys Gly Val Ile Ser Ile Ser Phe Leu Lys Glu Glu
1 5 10 15

Glu Gln Glu Asp Glu Glu Glu Ile Asp Val Val Ser Val Glu Lys Arg
20 25 30

Gln Ala Pro Gly Lys Arg Ser Glu Ser Gly Ser Pro Ser Ala Gly Gly
35 40 45

His Ser Lys Pro Pro His Ser Pro Leu Val Leu Lys Arg Cys His Val
50 55 60

Ser Thr His Gln His Asn Tyr Ala Ala Pro Pro Ser Thr Arg Lys Asp
65 70 75 80

Tyr Pro Ala Ala Lys Arg Val Lys Leu Asp Ser Val Arg Val Leu Arg
85 90 95

Gln Ile Ser Asn Asn Arg Lys Cys Thr Ser Pro Arg Ser Ser Asp Thr
100 105 110

Glu Glu Asn Val Lys Arg Arg Thr His Asn Val Leu Glu Arg Gln Arg
115 120 125

Arg Asn Glu Leu Lys Arg Ser Phe Phe Ala Leu Arg Asp Gln Ile Pro
130 135 140

Glu Leu Glu Asn Asn Glu Lys Ala Pro Lys Val Val Ile Leu Lys Lys
145 150 155 160

Ala Thr Ala Tyr Ile Leu Ser Val Gln Ala Glu Glu Gln Lys Leu Ile
165 170 175

Ser Glu Glu Asp Leu Leu Arg Lys Arg Arg Glu Gln Leu Lys His Lys
180 185 190

Leu Glu Gln Leu Arg Asn Ser Cys Ala
195 200

<210> 4882
<211> 60
<212> PRT
<213> Homo sapiens

<400> 4882
Lys Gly Ile Val Arg Met Ser Leu Ser Ser Gly Ser Thr Thr Ala Val
1 5 10 15

Ser Tyr Leu Gly Pro Val Leu Ser Gln Gly Gly Trp Leu Val Lys Val
20 25 30

Met Cys Asp Leu Arg Arg Leu Ser Cys His Leu Pro His Val Asn Arg
35 40 45

Lys Gly Gly Ile Leu Pro Pro Pro Glu Tyr Thr Gly
50 55 60

<210> 4883
<211> 737
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (555)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (602)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4883
Pro Pro Arg Gly Leu Asp Pro Gly Ser Cys Cys Cys Cys Arg Cys Cys
1 5 10 15

Cys Pro Leu Arg Pro Gln Pro Pro Thr Gly Pro Gly Ala Ala Asp Pro
20 25 30

Val Asn Pro Glu Lys Leu Leu Val Ile Thr Val Ala Thr Ala Glu Thr
35 40 45

Glu Gly Tyr Leu Arg Phe Leu Arg Ser Ala Glu Phe Phe Asn Tyr Thr
50 55 60

Val Arg Thr Leu Gly Leu Gly Glu Glu Trp Arg Gly Gly Asp Val Ala
65 70 75 80

```
Arg Thr Val Gly Gly Gly Gln Lys Val Arg Trp Leu Lys Lys Glu Met
                85                  90                  95

Glu Lys Tyr Ala Asp Arg Glu Asp Met Ile Ile Met Phe Val Asp Ser
            100                 105                 110

Tyr Asp Val Ile Leu Ala Gly Ser Pro Thr Glu Leu Leu Lys Lys Phe
        115                 120                 125

Val Gln Ser Gly Ser Arg Leu Leu Phe Ser Ala Glu Ser Phe Cys Trp
    130                 135                 140

Pro Glu Trp Gly Leu Ala Glu Gln Tyr Pro Glu Val Gly Thr Gly Lys
145                 150                 155                 160

Arg Phe Leu Asn Ser Gly Gly Phe Ile Gly Phe Ala Thr Thr Ile His
                165                 170                 175

Gln Ile Val Arg Gln Trp Lys Tyr Lys Asp Asp Asp Asp Asp Gln Leu
            180                 185                 190

Phe Tyr Thr Arg Leu Tyr Leu Asp Pro Gly Leu Arg Glu Lys Leu Ser
        195                 200                 205

Leu Asn Leu Asp His Lys Ser Arg Ile Phe Gln Asn Leu Asn Gly Ala
    210                 215                 220

Leu Asp Glu Val Val Leu Lys Phe Asp Arg Asn Arg Val Arg Ile Arg
225                 230                 235                 240

Asn Val Ala Tyr Asp Thr Leu Pro Ile Val Val His Gly Asn Gly Pro
                245                 250                 255

Thr Lys Leu Gln Leu Asn Tyr Leu Gly Asn Tyr Val Pro Asn Gly Trp
            260                 265                 270

Thr Pro Glu Gly Gly Cys Gly Phe Cys Asn Gln Asp Arg Arg Thr Leu
        275                 280                 285

Pro Gly Gly Gln Pro Pro Pro Arg Val Phe Leu Ala Val Phe Val Glu
    290                 295                 300

Gln Pro Thr Pro Phe Leu Pro Arg Phe Leu Gln Arg Leu Leu Leu Leu
305                 310                 315                 320

Asp Tyr Pro Pro Asp Arg Val Thr Leu Phe Leu His Asn Asn Glu Val
                325                 330                 335

Phe His Glu Pro His Ile Ala Asp Ser Trp Pro Gln Leu Gln Asp His
            340                 345                 350
```

```
Phe Ser Ala Val Lys Leu Val Gly Pro Glu Glu Ala Leu Ser Pro Gly
        355                 360                 365

Glu Ala Arg Asp Met Ala Met Asp Leu Cys Arg Gln Asp Pro Glu Cys
    370                 375                 380

Glu Phe Tyr Phe Ser Leu Asp Ala Asp Ala Val Leu Thr Asn Leu Gln
385                 390                 395                 400

Thr Leu Arg Ile Leu Ile Glu Glu Asn Arg Lys Val Ile Ala Pro Met
                405                 410                 415

Leu Ser Arg His Gly Lys Leu Trp Ser Asn Phe Trp Gly Ala Leu Ser
            420                 425                 430

Pro Asp Glu Tyr Tyr Ala Arg Ser Glu Asp Tyr Val Glu Leu Val Gln
        435                 440                 445

Arg Lys Arg Val Gly Val Trp Asn Val Pro Tyr Ile Ser Gln Ala Tyr
    450                 455                 460

Val Ile Arg Gly Asp Thr Leu Arg Met Glu Leu Pro Gln Arg Asp Val
465                 470                 475                 480

Phe Ser Gly Ser Asp Thr Asp Pro Asp Met Ala Phe Cys Lys Ser Phe
                485                 490                 495

Arg Asp Lys Gly Ile Phe Leu His Leu Ser Asn Gln His Glu Phe Gly
            500                 505                 510

Arg Leu Leu Ala Thr Ser Arg Tyr Asp Thr Glu His Leu His Pro Asp
        515                 520                 525

Leu Trp Gln Ile Phe Asp Asn Pro Val Asp Trp Lys Glu Gln Tyr Ile
    530                 535                 540

His Glu Asn Tyr Ser Arg Ala Leu Glu Gly Xaa Gly Ile Val Glu Gln
545                 550                 555                 560

Pro Cys Pro Asp Val Tyr Trp Phe Pro Leu Leu Ser Glu Gln Met Cys
                565                 570                 575

Asp Glu Leu Val Ala Glu Met Glu His Tyr Gly Gln Trp Ser Gly Gly
            580                 585                 590

Arg His Glu Asp Ser Arg Leu Ala Gly Xaa Tyr Glu Asn Val Pro Thr
        595                 600                 605

Val Asp Ile His Met Lys Gln Val Gly Tyr Glu Asp Gln Trp Leu Gln
    610                 615                 620
```

```
Leu Leu Arg Thr Tyr Val Gly Pro Met Thr Glu Ser Leu Phe Pro Gly
625                 630                 635                 640

Tyr His Thr Lys Ala Arg Ala Val Met Asn Phe Val Val Arg Tyr Arg
                645                 650                 655

Pro Asp Glu Gln Pro Ser Leu Arg Pro His His Asp Ser Ser Thr Phe
            660                 665                 670

Thr Leu Asn Val Ala Leu Asn His Lys Gly Leu Asp Tyr Glu Gly Gly
        675                 680                 685

Gly Cys Arg Phe Leu Arg Tyr Asp Cys Val Ile Ser Ser Pro Arg Lys
    690                 695                 700

Gly Trp Ala Leu Leu His Pro Gly Arg Leu Thr His Tyr His Glu Gly
705                 710                 715                 720

Leu Pro Thr Thr Trp Gly Thr Arg Tyr Ile Met Val Ser Phe Val Asp
                725                 730                 735

Pro
```

<210> 4884
<211> 73
<212> PRT
<213> Homo sapiens

<400> 4884

```
Glu Thr Thr Lys Glu Tyr His Glu Gly Ile Tyr Ala Pro Val Leu Ala
  1               5                  10                  15

Ile Ile Cys Leu Arg Arg Asn Leu Leu Asn Lys Ser Phe Tyr Pro Leu
             20                  25                  30

Thr Phe Thr Phe Ile Arg Pro Tyr Lys Arg Ser Asn Gly Asp Leu Lys
         35                  40                  45

Phe Phe Ser His Lys Ser Tyr Leu Phe Ser Ile Ser Ala Lys Ser Arg
     50                  55                  60

Ile Leu Ser Ser Lys Pro Lys Leu Thr
 65                  70
```

<210> 4885
<211> 76

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4885
Arg Lys Lys Pro Ile Tyr Ile Asn Val Xaa Arg Asp Pro Ile Glu Arg
1 5 10 15

Leu Val Ser Tyr Tyr Tyr Phe Leu Arg Xaa Gly Asp Asp Tyr Arg Pro
20 25 30

Gly Leu Arg Arg Arg Lys Gln Gly Asp Lys Lys Thr Phe Asp Glu Cys
35 40 45

Val Ala Glu Gly Gly Ser Asp Cys Ala Pro Glu Lys Leu Trp Leu Gln
50 55 60

Ile Pro Phe Phe Cys Gly His Ser Ser Glu Cys Trp
65 70 75

<210> 4886
<211> 94
<212> PRT
<213> Homo sapiens

<400> 4886
Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro
1 5 10 15

Lys Glu Glu Gly Gly Lys Pro Gln Met Asn Ser Glu Gly Glu Ile Pro
20 25 30

Ser Leu Pro Ser Gly Ser Gln Ser Ala Lys Pro Val Ser Gln Pro Arg
35 40 45

Lys Ser Thr Gln Pro Asp Val Cys Ala Ser Pro Gln Glu Lys Pro Leu
50 55 60

Arg Thr Leu Phe His Gln Pro Glu Glu Glu Ile Glu Asp Gly Gly Leu
65 70 75 80

Phe Ile Pro Met Glu Asp Lys Thr Met Lys Lys Val Arg Lys
85 90

<210> 4887
<211> 35
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4887
Ile Leu Asn Glu Lys Lys Xaa Leu Xaa Lys Lys Gly Gly Arg Ser Arg
1 5 10 15

Gly Ser Lys Leu Thr Tyr Ala Cys Xaa Arg Arg His Ser Ser Ser Ile
20 25 30

Val Ser Pro
35

<210> 4888
<211> 102
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4888

```
Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
  1               5                  10                  15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Gly Thr Arg Tyr
             20                  25                  30

Pro Gln Gly His Ser Asp Thr Thr Val Ala Ile Ser Thr Ser Thr Val
         35                  40                  45

Leu Leu Cys Xaa Leu Ser Ala Val Ser Leu Leu Ala Cys Tyr Xaa Lys
     50                  55                  60

Ser Arg Gln Thr Pro Pro Leu Ala Ser Val Glu Met Glu Ala Met Glu
 65                  70                  75                  80

Ala Leu Pro Val Thr Trp Gly Thr Ser Ser Arg Asp Glu Asp Leu Glu
                 85                  90                  95

Asn Cys Ser His His Leu
            100
```

<210> 4889
<211> 69
<212> PRT
<213> Homo sapiens

<400> 4889

```
Leu Ser Gln Ser Gln Leu Asn Arg His Leu Asn Cys Ile Cys Lys Ile
  1               5                  10                  15

Leu Ser Leu Leu Pro Tyr Ser Leu Thr Lys Cys Asn Arg Arg Cys Pro
             20                  25                  30

His Lys Gly Met Asp Ile Gly Leu Gly Lys Asp Phe Arg Asn His Leu
         35                  40                  45

Arg Ile Leu Pro Thr Thr Asn Ser Ile Leu Gln Val Ser Ile Ser Ser
     50                  55                  60

Ile Leu Val Ile His
 65
```

<210> 4890
<211> 75

<212> PRT
<213> Homo sapiens

<400> 4890
Phe Val Ser Glu Gly Asp Phe Pro Ser Tyr Thr Leu Gly Leu Glu Asp
1 5 10 15

Phe Glu Tyr Leu Gly Pro Phe Ser Cys Glu His Gly Leu Phe Pro His
20 25 30

Ser Ser Tyr Leu Leu Thr Arg Gly Ile Leu Gly Arg Asp Leu Arg Ser
35 40 45

Ser Phe Ser Cys Phe Pro Glu Gln Ser Leu Lys Phe Thr Val Asn Lys
50 55 60

Leu Phe Asp His Glu Lys Lys Lys Lys Ser Thr
65 70 75

<210> 4891
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4891
Gly Ala Ala Leu Leu Ile Trp Gly Val Ser Arg Leu Ser Ala Leu Thr
1 5 10 15

Leu Leu Xaa His Pro Xaa Thr Asp Lys Val Arg Leu Gln Arg Arg Val

20 25 30

Thr Pro Met Cys Tyr Ser Phe Phe Xaa Thr Ser Phe Thr Gly Asp Asn
35 40 45

Ala His Thr Val Gln Phe Thr His Leu Lys Cys Thr Ile Gln Trp Val
50 55 60

Leu Val Tyr Ser Trp Gly Leu Cys Asn Pro Xaa Pro
65 70 75

<210> 4892
<211> 106
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4892
Glu Glu Gly Leu Arg Asn Lys Lys Ala Lys Glu Pro Phe Glu Glu Ala
1 5 10 15

Ser Cys Leu Leu Gly Ala Gly Val Cys Ala Gly Val Val Leu Arg Gly
20 25 30

Arg Lys Glu Pro Xaa Ser Pro Glu Asp Pro Pro Gly Gly Ala Gly Leu
35 40 45

Lys Phe Arg Trp Val Pro Gly Gly Ser Ala Leu Arg Ser Thr Asp Gly
50 55 60

Leu Arg Ser Gln Cys Ala Ala Arg Thr Ser Arg Ser Gly Gly Arg Val
65 70 75 80

Leu Pro Thr Pro Ala Leu Gly Ser Glu Lys Ala Ala Leu Val Leu Phe
85 90 95

Leu Gly Met Ser Ala Glu Gly Ala Pro Gly
100 105

<210> 4893
<211> 190
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4893
Arg His Arg Gln Gln Gln Lys Ala His Cys Pro His Pro Leu Thr Leu
1 5 10 15

Asn Phe Leu Ser Leu Phe Lys Ile Leu Ala Ser Asp Cys Ser Ala Ala
20 25 30

Xaa Asn Phe Leu Val Pro Ser Trp Gly Xaa Trp Gly Gly Val Tyr Arg
35 40 45

Leu Phe Ser Ala Ser Ala Leu Leu Ser Gln Gly Phe Glu Pro Leu Arg
50 55 60

Phe Ser Gly Gln Thr Arg Lys Asn Glu Asn Thr Ala Trp Gly Ala Pro
65 70 75 80

Thr Ser Arg Arg Leu Cys Gln Leu Thr Ser Gly His Gly Ala Ala Ala
85 90 95

Gly Ala His Gly Gly Gln Gly Gln Leu His Ile Leu Pro Ser Pro Ser
100 105 110

His Phe Thr Val Ala Pro Asn Pro Ala Arg Arg Glu Arg Val Ser Ala
115 120 125

Pro Gln Thr Thr Gly Ser Leu Leu Thr Lys Asn Gly Glu Thr Arg Phe
130 135 140

His Leu Ser Ala Glu Glu Pro Gln Ala Gly Leu Ser Glu Arg Asp Gly
145 150 155 160

Ala Gly Gly Arg Leu Trp Ile Ala Ser Gln Ile Lys Leu Cys Ser Leu
165 170 175

Asn Val Ala Ser Arg Gln Glu Lys Ala Trp Gly Leu Asn Ser
180 185 190

<210> 4894

<211> 64
<212> PRT
<213> Homo sapiens

<400> 4894
Gly Asp Lys Asn Val Leu Lys Phe Ile Val Met Met Leu Ala Ile Ser
1 5 10 15

Ile Ser Arg Leu Asn Ala Val Met Val Ala Asn Ser Ile Asn Ile Phe
20 25 30

Asn Val Val Met Val Ala Asn Ser Met Lys Asn Pro Asn Cys Thr Ile
35 40 45

Ser Met Ser Glu Ser Met Leu Cys Glu Cys Leu His Lys Gly Phe Ile
50 55 60

<210> 4895
<211> 104
<212> PRT
<213> Homo sapiens

<400> 4895
Thr Val Pro Arg Pro Arg Pro Asp Phe Ser His Ala Pro Pro Ser Thr
1 5 10 15

Ser Ala Leu Gly Cys Leu Gly Arg Glu Arg Arg Arg Gly Ala Trp Arg
20 25 30

Gly Thr Pro Gly Gln Asn Asp Ser Gly Met Ser Arg Glu Arg Lys Glu
35 40 45

Ala Pro Trp Asp Ala Gly Gly Arg Val Leu Gly Pro Gly Leu Gln Pro
50 55 60

Arg Thr Gly Ala Thr Ala Gly Pro Ser Pro Asp Arg Pro Arg Ala Gly
65 70 75 80

Gly Gln Ala Arg Val Arg Cys Ala Ala Arg Pro Arg Ser Leu Thr Thr
85 90 95

Val Pro Thr His Arg Gly Gly Pro
100

<210> 4896
<211> 71
<212> PRT
<213> Homo sapiens

<400> 4896
Leu Leu Ile Pro Met Pro Leu Cys Asp Pro Ile Leu Asn Thr Ala Arg
1 5 10 15

Ala Val Phe Gln Gln His Ser Ser Asn Leu Val Ser Ser Pro Leu Leu
20 25 30

His Ala Ser Val Ala Phe Pro Val Thr Trp His Gly Thr Arg Pro Gln
35 40 45

Leu Pro Tyr Ile Pro Ala Asn Ser Tyr Pro Thr Phe Leu Cys Ser His
50 55 60

Ser Phe Leu Phe Leu Pro His
65 70

<210> 4897
<211> 102
<212> PRT
<213> Homo sapiens

<400> 4897
Gly Cys Gly Gly Phe Gln Cys Val Glu Trp Lys Gly Asn Cys Arg Ile
1 5 10 15

Val Ser Ala Pro His Ser Glu Gly Leu Leu Pro Val Pro Pro Arg Pro
20 25 30

Gly Ala Ser Thr Ala Ser Pro His Ser Thr Gln Met Pro Arg Ser Ser
35 40 45

Glu Leu Val Tyr Glu Lys Ser Pro Thr Phe Ser Pro Lys Thr Ser Leu
50 55 60

Leu Ser Leu His Lys Lys Lys Arg Lys Gly Thr Lys Glu Lys His Ser
65 70 75 80

Val Phe Leu Phe Leu Lys Lys Val Ser Pro Phe Leu Lys Ser Ser Asn
85 90 95

Glu Thr Leu Ser Gly Asn
100

<210> 4898
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4898
Pro Gln Gln Xaa Thr Ser Gln Glu Val Glu Asn Ser Lys Gln Glu Lys
1 5 10 15

Tyr Gln Asn Asn Tyr Thr Gln Thr Ser Glu Asn Gln Arg Gln Lys Glu
20 25 30

Asn Leu Gln Arg Ser Gln Arg Lys Ser Asn Leu Thr Tyr Ser Lys Thr
35 40 45

Gly Gln Glu Leu Asn
50

<210> 4899
<211> 46
<212> PRT
<213> Homo sapiens

<400> 4899
Gly Asn Asn Cys Arg Ser Ile Glu Val Thr Ala Lys Ile Phe Tyr Ser
1 5 10 15

Asn Trp Val Asn Pro Val Asn His Val Arg Asn Ser Ser Pro Arg Val
20 25 30

Ser Met Leu Leu Leu Tyr Phe Cys Lys His Asn Pro Leu Thr
35 40 45

<210> 4900
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4900
Leu Leu Phe Asn Leu Pro Ile Glu Leu Leu Gly Phe Lys Lys Tyr Phe
1 5 10 15

Xaa Asn Asp Phe Leu Gly Leu Glu Ser Thr Phe Asn Thr Phe Lys Leu
20 25 30

Val Phe Leu Leu Glu Ile Phe Arg Ile Ser Ser Leu Ile Gly Asn Leu
35 40 45

Tyr Arg Ser Leu Val Arg Phe Val Ala Lys Met Cys His Arg Trp Thr
50 55 60

Gln Ile Ser His Ser Gly Ala Ile Ser Tyr His Ser Gly Gly
65 70 75

<210> 4901
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4901
Cys Leu Xaa Tyr Phe Xaa Met Asp Ile Glu Val Lys Met Ser Phe Ile
1 5 10 15

Cys Ile Tyr Leu Gly Lys Glu Asp Met Leu Leu Lys Gln Gly Gln Met
20 25 30

Tyr Met Ala Asp Ser Gln Cys Thr Ser Pro Gly Tyr Pro Gly Pro Met
35 40 45

<210> 4902

<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4902
Arg Lys His Lys Ala Ile Arg Leu Ile Ser Gly Glu Leu His Thr Glu
1 5 10 15

Gly Glu Xaa Lys Phe Leu Ser Pro Trp Ser Thr Pro Ser Xaa Xaa Ser
20 25 30

Glu Arg Val Pro Phe Met Ser Asn Thr Ala Ser His
35 40

<210> 4903
<211> 42
<212> PRT
<213> Homo sapiens

<400> 4903
Ser Tyr His Ser Val Ser Gly Phe Leu Val Val Tyr Thr Phe Thr Ile
1 5 10 15

Met Ala Lys Cys Phe Lys Ile Ile Gln Leu Phe Lys Glu Thr Tyr Tyr
20 25 30

Ala Lys Asp Thr Leu Glu Met Leu Cys Ile
35 40

<210> 4904
<211> 103
<212> PRT

<213> Homo sapiens

<400> 4904
Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg
1 5 10 15

Val Arg Ser Val Pro Leu Trp Leu Leu Ser His Leu Lys Asn Asp Pro
20 25 30

Ser Gly Pro Phe Pro Pro Pro Cys Pro Leu Pro His Thr Ser Arg Phe
35 40 45

Pro Val Arg Gln Gln Val Gln Arg Leu Gln Asp Leu Ala Leu Leu Ser
50 55 60

Leu Leu Glu Pro Leu Lys Glu Lys Ala Gly Phe Glu Leu Phe Ala Phe
65 70 75 80

Glu Ser Trp Arg His Lys Arg Tyr Leu Gly Tyr Arg Ser Arg Arg Arg
85 90 95

Glu Arg Thr Pro Arg Ser Asn
100

<210> 4905
<211> 78
<212> PRT
<213> Homo sapiens

<400> 4905
Phe Tyr Phe Ser Ser Lys Ser Leu Phe His Thr Cys Lys Ile Leu Gly
1 5 10 15

Arg Arg Phe Leu Lys Leu Cys Gln Glu Leu Leu Pro Ile Ser Lys Asn
20 25 30

Ser Leu Leu Cys Ser Lys Thr Thr Ile Ser Leu Arg Asp Cys Leu Lys
35 40 45

Gly Glu Arg Ala Thr Arg Glu Ile Ile His Ser Ala His Arg Asn Tyr
50 55 60

Cys Ser Ser Gly Leu Pro Ala Thr Val Phe Arg Cys Trp Val
65 70 75

<210> 4906
<211> 219

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4906
Lys Val Asp Lys Gln Leu Phe Pro Pro Ser Tyr Gln Glu Lys Cys Ser
1 5 10 15

Gly Ser Tyr Ala Thr Pro Ser Ser Glu Asn Val Gln Leu Arg Gln Asn
20 25 30

Leu Gly Thr Lys Lys Asn Leu Xaa His Val Asn Lys Ile Leu Lys Ala
35 40 45

Lys Lys Leu Gln Arg Gln Ala Arg Thr Gly Asn Asn Phe Val Lys Arg
50 55 60

Arg Pro Gly Arg Pro Arg Lys Cys Pro Leu Gln Ala Val Val Ser Met
65 70 75 80

Gln Ala Phe Gln Ala Ala Gln Phe Val Asn Pro Glu Leu Asn Arg Asp
85 90 95

Glu Glu Gly Ala Ala Leu His Leu Ser Pro Asp Thr Val Thr Asp Val
100 105 110

Ile Glu Ala Val Val Gln Ser Val Asn Leu Asn Pro Glu His Lys Lys
115 120 125

Gly Leu Lys Arg Lys Gly Trp Leu Leu Glu Glu Gln Thr Arg Lys Lys
130 135 140

Gln Lys Pro Leu Pro Glu Glu Glu Glu Gln Glu Asn Asn Lys Ser Phe
145 150 155 160

Asn Glu Ala Pro Val Glu Ile Pro Ser Pro Ser Glu Thr Pro Ala Lys
165 170 175

Pro Ser Glu Pro Glu Ser Thr Leu Gln Pro Val Leu Ser Leu Ile Pro
180 185 190

Arg Glu Lys Lys Pro Pro Arg Pro Pro Lys Lys Lys Tyr Gln Lys Ala
195 200 205

Gly Leu Tyr Ser Asp Val Tyr Lys Thr Thr Glu
210 215

<210> 4907
<211> 102
<212> PRT
<213> Homo sapiens

<400> 4907
Ser His Cys Thr Val Asn Ser Lys Lys Ile Glu Glu Leu Phe Trp His
1 5 10 15

Leu Lys Thr Ile Thr Gln Phe Ser Arg Glu Val Thr Asp Lys Arg Asp
20 25 30

His Thr Asp Cys Phe Val Val Leu Val Leu Ser Tyr Ser Leu Met Gln
35 40 45

Ile Arg Thr Phe Thr Ser Ile Cys Val Gly Pro Thr Leu Pro Gly Gln
50 55 60

Ile Gln Leu Gln Ser Pro Cys Arg Tyr Glu Phe Ser Arg Asn Glu Pro
65 70 75 80

Met Phe Ser Ala Arg Ile Asn Trp Ser Tyr Thr Ile Tyr Lys Asn Glu
85 90 95

Tyr Cys Ile Leu Tyr Leu
100

<210> 4908
<211> 58
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4908
Gly Xaa Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
1 5 10 15

Pro Arg Val Arg Gly Ser Pro Leu Leu Cys Ala Leu Ser Ser Val Met
20 25 30

Arg Arg Glu Pro Phe Ala Val Cys Ser Val Gln Cys His Glu Thr Gly
35 40 45

Ala Leu Cys Cys Val Leu Cys Pro Val Ser
50 55

<210> 4909
<211> 200
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4909
Ala Arg Pro Ser Leu Arg Thr Cys Tyr Pro Arg Gly Asn Ile Thr Met
1 5 10 15

Ser Glu Ala Pro Arg Ala Glu Thr Phe Val Phe Leu Asp Leu Glu Ala
20 25 30

Thr Gly Leu Pro Ser Val Glu Pro Glu Ile Ala Glu Leu Ser Leu Phe
35 40 45

Ala Val His Arg Ser Ser Leu Glu Asn Pro Glu His Asp Glu Ser Gly

```
     50                  55                  60

Ala Leu Xaa Leu Pro Arg Val Leu Asp Lys Leu Thr Leu Cys Met Cys
 65                  70                  75                  80

Pro Glu Arg Pro Phe Thr Ala Lys Ala Ser Glu Ile Thr Gly Leu Ser
                 85                  90                  95

Ser Glu Gly Leu Ala Arg Cys Arg Lys Ala Gly Phe Asp Gly Ala Xaa
            100                 105                 110

Val Arg Thr Leu Gln Ala Phe Leu Ser Arg Gln Ala Gly Pro Ile Cys
        115                 120                 125

Leu Val Ala His Asn Gly Phe Asp Tyr Asp Phe Pro Leu Leu Cys Ala
    130                 135                 140

Glu Leu Arg Xaa Leu Gly Ala Arg Leu Pro Arg Asp Thr Val Cys Leu
145                 150                 155                 160

Asp Thr Leu Pro Ala Leu Arg Gly Leu Asp Arg Ala His Lys Pro Arg
                165                 170                 175

Xaa Pro Gly Pro Gly Pro Xaa Arg Val Thr Ser Leu Gly Lys Leu Phe
            180                 185                 190

Pro Pro Xaa Leu Ser Gly Lys Thr
        195                 200
```

<210> 4910
<211> 66
<212> PRT
<213> Homo sapiens

<400> 4910

```
Pro Arg Val Ser Leu Pro Phe Arg Glu Arg Ala Glu Val Leu Thr Leu
  1               5                  10                  15

Val Ala Cys Cys His Leu Ser Leu Ala Ser Ala Leu Val His Pro His
             20                  25                  30

Ser Thr Leu Arg Ser His Ser His His Gln Arg Leu Asn Pro Lys Ala
         35                  40                  45

Leu Gln Asp Leu Lys Val Pro Ser Glu Ala Ser Glu Ile Lys Tyr Cys
     50                  55                  60

Ser Asn
 65
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<210> 4911
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4911
Lys Gln Lys His Ile Tyr Phe Lys Lys Tyr Thr Ser Xaa Tyr Glu Ile
1 5 10 15

Phe Ser Phe Glu Cys Met Leu Lys Trp Xaa Xaa Ser Arg Ile Ser Tyr
20 25 30

Asn Thr Gly Tyr Leu Glu Thr Arg Tyr
35 40

<210> 4912
<211> 255
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4912
Arg Glu Lys Ser Thr Phe Glu Cys Ser Glu Cys Gly Lys Ala Phe Ser
1 5 10 15

Tyr Leu Ser Asn Leu Asn Gln His Gln Lys Thr His Thr Gln Glu Lys
20 25 30

```
Ala Tyr Glu Cys Lys Glu Cys Gly Lys Ala Phe Ile Arg Ser Ser Ser
         35                  40                  45

Leu Ala Lys His Glu Arg Ile His Thr Gly Glu Lys Pro Tyr Gln Cys
     50                  55                  60

Xaa Glu Cys Gly Lys Thr Phe Ser Tyr Gly Ser Ser Leu Ile Gln His
 65                  70                  75                  80

Arg Lys Ile His Thr Gly Glu Arg Pro Tyr Lys Cys Asn Glu Cys Gly
                 85                  90                  95

Arg Ala Phe Asn Gln Asn Ile His Leu Thr Gln His Lys Arg Ile His
            100                 105                 110

Thr Gly Ala Lys Pro Tyr Glu Cys Ala Glu Cys Gly Lys Ala Phe Arg
        115                 120                 125

His Cys Ser Ser Leu Ala Gln His Gln Lys Thr His Thr Glu Glu Lys
    130                 135                 140

Pro Tyr Gln Cys Asn Lys Cys Glu Lys Thr Phe Ser Gln Ser Ser His
145                 150                 155                 160

Leu Thr Gln His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys
                165                 170                 175

Asn Glu Cys Asp Lys Ala Phe Ser Arg Ser Thr His Leu Thr Glu His
            180                 185                 190

Gln Asn Thr His Thr Gly Glu Lys Pro Tyr Asn Cys Asn Glu Cys Arg
        195                 200                 205

Lys Thr Phe Ser Gln Ser Thr Tyr Leu Ile Gln His Gln Arg Ile His
    210                 215                 220

Ser Gly Glu Lys Pro Phe Gly Cys Asn Asp Cys Gly Lys Ser Phe Arg
225                 230                 235                 240

Tyr Arg Ser Ala Leu Asn Lys His Gln Arg Leu His Pro Gly Ile
                245                 250                 255
```

<210> 4913
<211> 118
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4913
Leu Leu Glu Ala Gln Ala Gly Glu Gly Gly Arg Val Ser Arg Arg Ala
1 5 10 15

Pro Leu Ser Leu Thr Gln Arg Ser Cys Val Phe Leu Val Lys Pro Ser
20 25 30

His Ala Arg Gly Pro Ile Ala Ser Ser Pro Pro Ser Leu Pro Thr Asn
35 40 45

Ile Pro Ser Pro Asp Pro Asn Ser Pro Pro His Tyr Pro Ala Leu Asp
50 55 60

Leu Gly Asn Val Phe Leu Tyr Phe Asn Ile Ala Gln Gly Lys Asn Thr
65 70 75 80

Tyr Ile Leu Arg Asp Leu Gly Trp Gly Lys Gln Lys Pro Cys Gly Val
85 90 95

Xaa Lys Thr Lys Ala Tyr Phe Tyr Lys Cys Leu Met Phe Ser Pro Pro
100 105 110

Gly Cys Ser Glu Thr Pro
115

<210> 4914
<211> 186
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4914
Arg Ile Ser Gln Cys Leu Gly Arg Gly Glu Val Gln Glu Cys Val Leu
1 5 10 15

Arg Leu Asn His Ile Ile Leu Gln Arg Xaa Trp Ala Ala Arg His Ile
20 25 30

Val Asn Arg Ile Asn Ala Phe Lys Pro Thr Ala Asp Arg Pro Phe Val
35 40 45

Leu Gly Leu Pro Thr Gly Gly Thr Pro Met Thr Thr Tyr Lys Ala Leu
50 55 60

Val Glu Met His Lys Ala Gly Gln Val Ser Phe Lys His Val Val Thr
65 70 75 80

Phe Asn Met Asp Glu Tyr Val Gly Leu Pro Lys Glu His Pro Glu Ser
85 90 95

Tyr Tyr Ser Phe Met His Arg Asn Phe Phe Asp His Val Asp Ile Pro
100 105 110

Ala Glu Asn Ile Asn Leu Leu Asn Gly Asn Ala Pro Asp Ile Asp Ala
115 120 125

Glu Cys Arg Gln Tyr Glu Xaa Lys Ile Arg Ser Tyr Gly Lys Ile His
130 135 140

Leu Phe Met Gly Gly Val Xaa Asn Asp Gly His Ile Ala Phe Asn Glu
145 150 155 160

Pro Ala Ser Ser Leu Ala Ser Arg Thr Arg Ile Lys Thr Leu Thr His
165 170 175

Xaa His Ser Arg Arg Lys Leu Ser Phe Leu
180 185

<210> 4915
<211> 141
<212> PRT
<213> Homo sapiens

<400> 4915
Gly Ile Leu Phe Ile Tyr Leu Asp Gly Ala Phe Asp Leu Cys Val Thr

```
  1               5                  10                  15

Ser Val Ser Lys Gly Gly Phe Glu Arg Glu Glu Thr Ala Thr Phe Ala
             20                  25                  30

Leu Leu Tyr Arg Leu Arg Asn Ile Leu Phe Glu Arg Asn Arg Arg Val
         35                  40                  45

Met Asp Val Ile Ser Arg Ser Gln Leu Tyr Leu Asp Asp Leu Phe Ser
     50                  55                  60

Asp Tyr Tyr Asp Lys Pro Leu Ser Met Thr Asp Ile Ser Leu Lys Glu
 65                  70                  75                  80

Gly Thr His Ile Arg Val Asn Leu Leu Asn His Asn Ile Pro Lys Gly
                 85                  90                  95

Pro Cys Ile Leu Cys Gly Met Gly Asn Phe Lys Arg Glu Thr Val Tyr
            100                 105                 110

Gly Cys Phe Gln Cys Ser Val Asp Gly Gln Lys Tyr Val Arg Leu His
        115                 120                 125

Ala Val Pro Cys Phe Asp Ile Trp His Lys Arg Met Lys
    130                 135                 140
```

<210> 4916
<211> 50
<212> PRT
<213> Homo sapiens

<400> 4916

```
Asn Ser Ala Arg Val Cys Ile Leu Ser Arg Asp Arg Val Ser Pro Cys
  1               5                  10                  15

Trp Leu Gly Trp Cys Leu Ser Leu Asp Leu Val Ile His Pro Pro Gln
             20                  25                  30

Pro Pro Arg Val Leu Gly Leu Gln Val Arg Ala Thr Ala Pro Gly Trp
         35                  40                  45

Phe Ser
     50
```

<210> 4917
<211> 212
<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4917
Glu Tyr Cys Asn Thr Val Gln Leu Asp Ser Gly Ile Asp Tyr Arg Lys
1 5 10 15

Arg Glu Leu Pro Ala Ala Gly Lys Leu Tyr Tyr Leu Thr Ser Glu Ala
20 25 30

Asp Val Glu Ala Val Met Asp Lys Leu Phe Asp Glu Leu Ala Gln Lys
35 40 45

Gln Asn Asp Leu Thr Arg Pro Arg Ile Leu Lys Val Gln Gly Arg Glu
50 55 60

Leu Arg Leu Asn Lys Ala Cys Gly Thr Val Ala Asp Cys Thr Phe Glu
65 70 75 80

Glu Leu Cys Glu Arg Pro Leu Gly Ala Ser Asp Tyr Leu Glu Leu Xaa
85 90 95

Lys Asn Phe Asp Thr Ile Phe Leu Arg Xaa Ile Pro Gln Phe Thr Leu
100 105 110

Ala Asn Arg Thr Gln Gly Arg Arg Phe Ile Thr Leu Ile Asp Asn Phe
115 120 125

Tyr Asp Leu Lys Val Arg Ile Ile Cys Ser Ala Ser Thr Pro Ile Ser
130 135 140

Ser Leu Phe Leu His Gln His His Asp Ser Glu Leu Glu Gln Ser Arg

145 150 155 160

Ile Leu Met Asp Xaa Leu Gly Leu Xaa Gln Asp Ser Ala Glu Gly Leu
165 170 175

Ser Met Phe Thr Gly Glu Glu Glu Ile Phe Ala Phe Gln Arg Thr Ile
180 185 190

Ser Arg Leu Thr Glu Met Gln Thr Glu Gln Tyr Trp Asn Glu Gly Asp
195 200 205

Arg Thr Lys Lys
210

<210> 4918
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4918
Met Gln Asn Ile Glu Arg Ile Phe Met Ile Leu Pro Asn Cys Lys His
1 5 10 15

Ser Ser Gln Ser Leu Ile Ala Leu Glu Cys Phe Leu Asp Glu Gln Val
20 25 30

Thr Ser Cys Lys Pro Thr Ser Glu Val Arg Lys Met Phe Ser His Val
35 40 45

Ser Cys Ser Cys Gln Ile Phe Lys Asn Pro Pro Ser Phe Asn His Pro
50 55 60

Val Gly Lys Met Cys Tyr Lys Thr Leu Pro Pro Gly Val Phe Trp Glu
65 70 75 80

Glu Cys Leu Lys Lys Lys Lys Lys Thr Ala Xaa Arg Lys Tyr Phe Gln
85 90 95

Ile Leu Tyr

<210> 4919

<211> 224
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (206)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (224)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4919

```
Tyr Leu Asp Ala Glu Lys Met Gly Gln Lys Ala Ser Gln Gln Leu Ala
  1               5                  10                  15

Leu Lys Asp Ser Lys Glu Val Pro Val Val Cys Glu Val Val Ser Glu
             20                  25                  30

Ala Ile Val His Ala Ala Gln Lys Leu Lys Glu Tyr Leu Gly Phe Glu
         35                  40                  45

Tyr Pro Pro Ser Lys Leu Cys Pro Ala Ala Asn Thr Leu Asn Glu Ile
     50                  55                  60

Phe Leu Ile His Phe Ile Thr Phe Cys Gln Glu Lys Gly Val Asp Glu
 65                  70                  75                  80

Trp Leu Thr Thr Thr Lys Met Thr Lys His Gln Ala Phe Leu Phe Gly
                 85                  90                  95

Ala Asp Trp Ile Trp Thr Phe Trp Gly Ser Asp Lys Gln Ile Lys Leu
            100                 105                 110

Gln Leu Ala Val Gln Thr Leu Gln Met Ser Ser Pro Pro Pro Val Glu
        115                 120                 125

Ser Lys Pro Cys Asp Leu Ser Asn Pro Glu Ser Xaa Val Xaa Glu Ser
    130                 135                 140
```

```
Ser Trp Lys Lys Ser Arg Phe Asp Lys Leu Glu Glu Phe Cys Asn Leu
145                 150                 155                 160

Ile Gly Glu Asp Cys Leu Gly Leu Phe Ile Ile Phe Gly Met Pro Gly
                165                 170                 175

Lys Pro Lys Asp Ile Arg Gly Val Val Leu Asp Ser Val Lys Ser Gln
            180                 185                 190

Met Val Arg Ser His Leu Pro Gly Gly Lys Ala Val Ala Xaa Phe Val
        195                 200                 205

Leu Glu Thr Glu Asp Cys Val Phe Ile Lys Glu Leu Leu Lys Ile Xaa
    210                 215                 220
```

<210> 4920
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4920

```
Thr Trp Lys Leu Phe Tyr Gln Ile Thr Val Leu His His Pro Pro Val
  1               5                  10                  15

Cys Leu Val Ser Leu Ile Asn Gly Arg Gly Ile Ser Lys Leu Ser Phe
             20                  25                  30

Leu Thr Pro Phe Glu Tyr Ser Val Phe Ala Ile Ile Asp Val Ala Pro
         35                  40                  45

His Asn Ser Pro Thr Phe Ile Leu Lys Asn Gln Asn Leu Lys Asn Cys
     50                  55                  60

Ser Ser Cys Gln Ser Val Met Thr His Leu Arg Xaa Ile Leu Phe Leu
 65                  70                  75                  80

Asp Val
```

<210> 4921
<211> 41
<212> PRT
<213> Homo sapiens

<400> 4921
Lys Ser Ser Leu Cys Cys Ser His Phe Asn Ser Cys His Met Phe Cys
1 5 10 15

Lys Gln Phe Phe Glu Phe Ile Ile Phe Gln Ser Cys Leu Tyr Tyr Ile
20 25 30

Leu Pro His Lys Asn Phe Lys Phe Val
35 40

<210> 4922
<211> 58
<212> PRT
<213> Homo sapiens

<400> 4922
Glu Tyr Phe Gln Asn Pro Ser Leu Ser Lys Leu Phe Cys Gly Lys Ser
1 5 10 15

Ser Ile Tyr Phe Ile Asn Val Met Cys Leu Ile Leu Asp Leu Phe Trp
20 25 30

Glu Lys Leu Phe Lys Leu Gly Pro Phe Lys Leu Ile Leu Ser Ser Leu
35 40 45

Glu Gly Arg Ser Tyr Leu Ala Asn Glu Ser
50 55

<210> 4923
<211> 93
<212> PRT
<213> Homo sapiens

<400> 4923
Phe Phe Glu Gln Ala Met Val Asp Ser Gly Ser Tyr Arg Asn Ser Ile
1 5 10 15

Asp His Thr Val Val Leu Arg Glu Lys Leu Pro Ile Arg Ser Asn Ile
20 25 30

Phe Pro Leu Met Leu Glu Thr Val Asp Gly His Pro Leu Ile Asn Gly

```
        35                  40                  45

Pro Ile Thr Lys Glu Thr Ser Pro Val Gln Val Gln Ile Gly Asn His
     50                  55                  60

Val Glu Glu Leu Gln Phe Asp Ile Ile His Ala Pro Arg Tyr Pro Leu
 65                  70                  75                  80

Ile Ile Gly Ile His Trp Leu Glu Thr His Asp Gln Thr
                85                  90
```

<210> 4924
<211> 43
<212> PRT
<213> Homo sapiens

<400> 4924

```
Lys Ala Asp Thr Gly Ala Ile Lys Asn Pro Gly Asp Gly Gly Cys Ser
  1               5                  10                  15

Glu Leu Arg Ser Arg His Cys Pro Pro Ala Trp Ala Thr Arg Val Lys
             20                  25                  30

Leu Cys Leu Lys Lys Gln Thr Asn Lys Cys Ile
         35                  40
```

<210> 4925
<211> 110
<212> PRT
<213> Homo sapiens

<400> 4925

```
Trp His Pro Leu Ser Glu Ser Gln Ser Ser Leu Arg His Cys Tyr Lys
  1               5                  10                  15

Arg Thr Leu Arg Lys Ile Trp Pro Tyr Glu Pro Ser Gln Pro Gln Ala
             20                  25                  30

Lys Arg Met Thr Met Cys Val Ser Ala Ala His Gly Gln Phe Val Ser
         35                  40                  45

His Cys Phe Gly Lys Pro Cys Val Pro Asn Gln Gly Arg Val Phe Gln
     50                  55                  60

Gly Lys Val Asn Phe Pro Lys Phe Ile Lys Ile Glu Leu Gly Lys Pro
 65                  70                  75                  80
```

Ser Ile Leu Asn Leu Phe Gln Ser Ser Gly His His Ser Tyr Phe Phe
85 90 95

Cys His Val Lys Glu Lys Phe Gln Ala Cys Ile Leu Ser Cys
100 105 110

<210> 4926
<211> 92
<212> PRT
<213> Homo sapiens

<400> 4926
Ser Pro Leu Arg Lys Ser Ser Gly Met Phe Ser Ile Ala Val Ser Phe
1 5 10 15

Pro Pro Lys Ile Thr Trp Leu Gly Ser Tyr Trp Ser Ser Gly Asn Leu
20 25 30

Ile Pro His Arg Asn Trp Arg Lys Gly Asn Ala Ser Arg Glu Glu Gln
35 40 45

Leu Tyr Phe Cys Leu Ser Asn Lys Pro Thr Asn Arg Phe Trp Tyr Glu
50 55 60

Leu Trp Arg His Lys Glu Asn Glu Cys Met Tyr Ser Lys Cys Thr Ser
65 70 75 80

Phe Phe Thr Leu Ser Trp Gln Lys Met Gln His Phe
85 90

<210> 4927
<211> 273
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4927
Xaa Leu Glu His Ile Pro Asn Phe Ser Leu Asp Asp Met Val Lys Leu

```
1               5                  10                  15

Val Glu Val Pro Asn Asp Gly Gly Pro Leu Gly Ile His Val Val Pro
            20                  25                  30

Phe Ser Ala Arg Gly Gly Arg Thr Leu Gly Leu Leu Val Lys Arg Leu
        35                  40                  45

Glu Lys Gly Gly Lys Ala Glu His Glu Asn Leu Phe Arg Glu Asn Xaa
    50                  55                  60

Cys Ile Val Arg Ile Asn Asp Gly Asp Leu Arg Asn Arg Arg Phe Glu
65                  70                  75                  80

Gln Ala Gln His Met Phe Arg Gln Ala Met Arg Thr Pro Ile Ile Trp
                85                  90                  95

Phe His Val Val Pro Ala Ala Asn Lys Glu Gln Tyr Glu Gln Leu Ser
            100                 105                 110

Gln Ser Glu Lys Asn Asn Tyr Tyr Ser Ser Arg Phe Ser Pro Asp Ser
        115                 120                 125

Gln Tyr Ile Asp Asn Arg Ser Val Asn Ser Ala Gly Leu His Thr Val
    130                 135                 140

Gln Arg Ala Pro Arg Leu Asn His Pro Pro Glu Gln Ile Asp Ser His
145                 150                 155                 160

Ser Arg Leu Pro His Ser Ala His Pro Ser Gly Lys Pro Pro Ser Ala
                165                 170                 175

Pro Ala Ser Ala Pro Gln Asn Val Phe Ser Thr Thr Val Ser Ser Gly
            180                 185                 190

Tyr Asn Thr Lys Lys Ile Gly Lys Arg Leu Asn Ile Gln Leu Lys Lys
        195                 200                 205

Gly Thr Glu Gly Leu Gly Phe Ser Ile Thr Ser Arg Asp Val Thr Ile
    210                 215                 220

Gly Gly Ser Ala Pro Ile Tyr Val Lys Asn Ile Leu Pro Arg Gly Ala
225                 230                 235                 240

Ala Ile Gln Asp Gly Arg Leu Lys Ala Gly Asp Arg Leu Ile Glu Val
                245                 250                 255

Asn Gly Val Gly Leu Val Gly Lys Ser Gln Glu Glu Val Val Ser Leu
            260                 265                 270

Leu
```

<210> 4928
<211> 160
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4928
Asp Arg Xaa Met Lys Glu Glu Val Lys Gly Ile Pro Val Arg Val Ala
1 5 10 15

Leu Arg Cys Arg Pro Leu Val Pro Lys Glu Ile Ser Glu Gly Cys Gln
20 25 30

Met Cys Leu Ser Phe Val Pro Gly Glu Pro Gln Val Val Val Gly Thr
35 40 45

Asp Lys Ser Phe Thr Tyr Asp Phe Val Phe Asp Pro Ser Thr Glu Gln
50 55 60

Glu Glu Val Phe Asn Thr Ala Val Ala Pro Leu Ile Lys Gly Val Phe
65 70 75 80

Lys Gly Tyr Asn Ala Thr Val Leu Ala Tyr Gly Gln Thr Gly Ser Gly
85 90 95

Lys Thr Tyr Ser Met Gly Gly Ala Tyr Thr Ala Glu Gln Glu Asn Glu
100 105 110

Pro Thr Val Gly Val Ile Pro Arg Val Ile Gln Leu Leu Phe Lys Glu
115 120 125

Ile Asp Lys Lys Ser Asp Phe Glu Phe Thr Leu Lys Val Ser Tyr Leu
130 135 140

Glu Ile Tyr Asn Glu Glu Ile Leu Asp Leu Leu Cys Pro Ser Arg Glu
145 150 155 160

<210> 4929

<211> 303
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (209)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (212)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4929

```
Pro Arg Leu Leu Arg Leu Pro Arg Ser Val Val Val Met Asp Ser Pro
  1               5                  10                  15

Trp Asp Glu Leu Ala Leu Ala Phe Ser Arg Thr Ser Met Phe Pro Phe
             20                  25                  30

Phe Asp Ile Ala His Tyr Leu Val Ser Val Met Ala Val Lys Arg Gln
         35                  40                  45

Pro Gly Ala Ala Ala Leu Ala Trp Lys Asn Pro Ile Ser Ser Trp Phe
     50                  55                  60

Thr Ala Met Leu His Cys Phe Gly Gly Gly Ile Leu Ser Cys Leu Leu
 65                  70                  75                  80

Leu Ala Glu Pro Pro Leu Lys Phe Leu Ala Asn His Thr Asn Ile Leu
                 85                  90                  95

Leu Ala Ser Ser Ile Trp Tyr Ile Thr Phe Phe Cys Pro His Asp Leu
            100                 105                 110

Val Ser Gln Gly Tyr Ser Tyr Leu Pro Val Gln Leu Leu Ala Ser Gly
        115                 120                 125

Met Lys Glu Val Thr Arg Thr Trp Lys Ile Val Gly Gly Val Thr His
    130                 135                 140

Ala Asn Ser Tyr Tyr Lys Asn Gly Trp Ile Val Met Ile Ala Ile Gly
145                 150                 155                 160

Trp Ala Arg Gly Ala Gly Gly Thr Ile Ile Thr Asn Phe Glu Arg Leu
                165                 170                 175

Val Lys Gly Asp Trp Lys Pro Glu Gly Asp Glu Trp Leu Lys Met Ser
            180                 185                 190
```

```
Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser Val Ile Phe Thr Phe Gln
        195                 200                 205

Xaa Thr Gln Xaa Leu Ala Ile Ser Lys His Asn Leu Met Phe Leu Tyr
    210                 215                 220

Thr Ile Phe Ile Val Ala Thr Lys Ile Thr Met Met Thr Thr Gln Thr
225                 230                 235                 240

Ser Thr Met Thr Phe Ala Pro Phe Glu Asp Thr Leu Ser Trp Met Leu
                245                 250                 255

Phe Gly Trp Gln Gln Pro Phe Ser Ser Cys Glu Lys Lys Ser Glu Ala
            260                 265                 270

Lys Ser Pro Ser Asn Gly Val Gly Ser Leu Ala Ser Lys Pro Val Asp
        275                 280                 285

Val Ala Ser Asp Asn Val Lys Lys Lys His Thr Lys Lys Asn Glu
    290                 295                 300
```

<210> 4930
<211> 82
<212> PRT
<213> Homo sapiens

<400> 4930

```
Val Met Val Ala Glu Thr Ser Ser Leu Tyr Phe Gly Ala Lys Thr Lys
  1               5                  10                  15

Arg Gln His Lys Arg Lys Ser Ile Leu Ile Glu Tyr Phe Val Glu Gln
             20                  25                  30

Arg Arg Leu Asp Lys Asn Cys Lys Pro Thr Asp Ser Ala Asn Lys Glu
         35                  40                  45

Arg Asn Val Leu Ala Ile Arg His Val Ser Ser Glu Ser Lys Ser Asn
     50                  55                  60

Asn Cys Arg Leu Gln Lys Lys Lys Val Phe Lys Asn Phe Ile Lys Thr
 65                  70                  75                  80

Gly His
```

<210> 4931
<211> 121

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4931
Glu Gly Leu Arg Asp Gly Arg Leu Ser Arg Ile Pro Phe Leu Ser Thr
1 5 10 15

Arg Ala Leu Leu Glu Pro Leu Ser Lys Gln Trp Gln Gly Thr Glu Arg
20 25 30

Ser Gln Gln Glu Ser Gly Arg Gly Leu Ile Ile Thr Lys Lys Thr His
35 40 45

Tyr Ala Arg Asn Arg Leu Cys Ala Pro Val Pro Asp Thr Trp Gln Lys
50 55 60

Cys Ser Ser Val Thr His Val Cys Glu Xaa Ile Ala Gly Ser Thr Pro
65 70 75 80

Ser Ala Trp Pro Ala Gly Ala Ser Ala Ala Asp Pro Met Leu Ser Gly
85 90 95

Gln Trp Gly Ala Ala Pro Gly Arg Leu Phe Trp Gly Arg Leu Ser Tyr
100 105 110

Pro Trp Ile Val Tyr Thr Leu Leu Cys
115 120

<210> 4932
<211> 62
<212> PRT
<213> Homo sapiens

<400> 4932
Asp Lys Ser Glu Asn Val Lys Leu Ile Asn Pro Leu Leu Val Ser Lys
1 5 10 15

Gln Thr Thr Cys Leu Arg Lys Leu Leu Asn Phe His Val Leu Leu Pro
20 25 30

Asp Ser Ser Leu Ile Lys Arg Lys Lys Lys Asn Pro Ala Gln Ala Trp
35 40 45

Trp Leu Thr Pro Trp His Leu Glu Gly Pro Arg Trp Glu Pro

50 55 60

<210> 4933
<211> 282
<212> PRT
<213> Homo sapiens

<400> 4933
Asn Tyr Ser Leu Leu Arg Glu Arg Val Glu Met Val Gly Ile Leu Pro
1 5 10 15

Leu Cys Cys Ser Gly Cys Val Pro Ser Leu Cys Cys Ser Ser Tyr Val
20 25 30

Pro Ser Val Ala Pro Thr Ala Ala His Ser Val Arg Val Pro His Ser
35 40 45

Ala Gly His Cys Gly Gln Arg Val Leu Ala Cys Ser Leu Pro Gln Val
50 55 60

Phe Leu Lys Pro Trp Ile Phe Val Glu His Phe Ser Ser Trp Leu Ser
65 70 75 80

Leu Glu Leu Phe Ser Phe Leu Arg Tyr Leu Gly Thr Leu Leu Cys Ala
85 90 95

Cys Gly His Arg Leu Arg Glu Gly Leu Leu Leu Pro Cys Leu Leu Gly
100 105 110

Val Gly Ser Trp Leu Leu Phe Asn Asn Trp Thr Gly Gly Ser Trp Phe
115 120 125

Ser Leu His Leu Gln Gln Val Ser Leu Ser Gln Gly Ser His Val Ala
130 135 140

Ala Phe Leu Pro Glu Ala Ile Gly Pro Gly Val Pro Val Pro Val Ser
145 150 155 160

Gly Glu Ser Thr Ser Ala Gln Gln Ser His Ala Gly Trp Gln Leu Ser
165 170 175

Ala Glu Ala Asp Ala Cys Pro Ser Val Leu Tyr Ser Glu Val Leu Glu
180 185 190

Trp Asn Lys Asn Ile Asn Thr Tyr Thr Ser Phe His Asp Phe Cys Leu
195 200 205

Ile Leu Gly Ile Phe Leu Phe Cys Phe Val Leu Ala Val Ile Gly Leu
210 215 220

```
Pro Tyr Ile Lys Pro Gly Leu Ser Leu Ser Val Ala Leu Leu Cys Lys
225                 230                 235                 240

Ala Ser Tyr Tyr Ser Leu Val Trp Phe Ser Arg Thr Val Arg Ser Thr
                245                 250                 255

Pro Gly Ala Val Cys Phe Leu Arg Leu Pro Gln His Lys Val Pro Tyr
            260                 265                 270

His Cys Gln Pro Ser Ser Pro Asp Pro Lys
        275                 280
```

<210> 4934
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4934

```
Cys His Leu Asn Ser Ile His Trp Pro Ser Phe Tyr Asn Arg Arg Asp
  1               5                  10                  15

Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro
             20                  25                  30

Pro Phe Ala Ala Gly Val Ile Ala Xaa Lys Pro Ala Pro Ile Ala Leu
         35                  40                  45

Xaa Asn Ser Cys Xaa Ala
     50
```

<210> 4935

<211> 292
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (201)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (242)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4935
Ile Gln Arg Leu Ser Leu Val Arg Ser Leu Cys Glu Ser Glu Glu Gln
1 5 10 15

Arg Leu Leu Glu Gln Val His Gly Xaa Glu Glu Arg Ala His Gln Ser
20 25 30

Ile Leu Thr Gln Arg Val His Trp Ala Glu Ala Leu Gln Lys Leu Asp
35 40 45

Thr Ile Arg Thr Gly Leu Val Gly Met Leu Thr His Leu Asp Asp Leu
50 55 60

Gln Leu Ile Gln Lys Glu Gln Glu Ile Phe Glu Arg Thr Glu Glu Ala
65 70 75 80

Glu Gly Ile Leu Asp Pro Gln Glu Ser Glu Met Leu Asn Phe Asn Glu
85 90 95

Lys Cys Thr Arg Ser Pro Leu Leu Thr Gln Leu Trp Ala Thr Ala Val
100 105 110

Leu Gly Ser Leu Ser Gly Thr Glu Asp Ile Arg Ile Asp Glu Arg Thr
115 120 125

Val Ser Pro Phe Leu Gln Leu Ser Asp Asp Arg Lys Thr Leu Thr Phe
130 135 140

Ser Thr Lys Lys Ser Lys Ala Cys Ala Asp Gly Pro Glu Arg Phe Asp
145 150 155 160

His Trp Pro Asn Ala Leu Ala Ala Thr Ser Phe Gln Asn Gly Leu His

165 170 175

Ala Trp Met Val Asn Val Gln Asn Ser Cys Ala Tyr Lys Val Gly Val
180 185 190

Ala Ser Gly His Leu Pro Arg Lys Xaa Ser Gly Ser Asp Cys Arg Leu
195 200 205

Gly His Asn Ala Phe Ser Trp Val Phe Ser Arg Tyr Asp Gln Glu Phe
210 215 220

Arg Phe Ser His Asn Gly Gln His Glu Pro Leu Gly Leu Leu Arg Gly
225 230 235 240

Pro Xaa Gln Leu Gly Val Val Leu Asp Leu Gln Val Gln Glu Leu Leu
245 250 255

Phe Tyr Glu Pro Ala Ser Gly Thr Val Leu Cys Ala His His Val Ser
260 265 270

Phe Pro Gly Pro Leu Phe Pro Val Phe Ala Val Ala Asp Gln Thr Ile
275 280 285

Ser Ile Val Arg
290

<210> 4936
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4936
Asn Ala Tyr Gln Thr Ala Ser His Ala Ser Arg Lys Ile Phe Cys Glu
1 5 10 15

Arg Lys Ser Pro Ile Asp Val Ala Thr Leu Leu Leu Ser Tyr Phe Lys
20 25 30

Lys Leu Leu Gln Xaa Pro Xaa Pro Ser Ala Thr Thr Thr Leu Leu Ser

35 40 45

Gln Gln Pro Ser Arg
50

<210> 4937
<211> 267
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (234)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (235)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (245)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (248)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (261)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (263)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4937
His Val Arg Glu Thr His Val Ala Gly Glu Val Gly Glu Arg Lys Val
1 5 10 15

Gly Val Asn Thr Leu Trp Gly Ser Phe Glu Ile Ser Asn Val Arg Leu
20 25 30

Ala Arg Val Met Leu Thr Gln Phe Ala Glu Gly Arg Leu Glu Asp Gln
35 40 45

```
Leu Asp Lys Tyr Asp His Trp Ala Asp Arg Phe Glu Asp Leu Pro Leu
     50                  55                  60

Tyr Phe Met Thr Phe His Gly Gln Gln Ser Ile Arg Thr Val Ile Asp
 65                  70                  75                  80

Thr Met Gln His Ala Val Tyr Val Tyr Asp Ile Cys His Val Ile Ile
                 85                  90                  95

Asp Asn Leu Gln Phe Met Met Gly His Glu Gln Leu Ser Thr Asp Arg
            100                 105                 110

Ile Ala Ala Gln Asp Tyr Ile Ile Gly Val Phe Arg Lys Phe Ala Thr
        115                 120                 125

Asp Asn Asn Cys His Val Thr Leu Val Ile His Pro Arg Lys Glu Asp
    130                 135                 140

Asp Asp Lys Glu Leu Gln Thr Ala Ser Ile Phe Gly Ser Ala Lys Ala
145                 150                 155                 160

Ser Gln Glu Ala Asp Asn Val Leu Ile Leu Gln Asp Arg Lys Leu Val
                165                 170                 175

Thr Gly Pro Gly Lys Arg Tyr Leu Gln Val Ser Lys Asn Arg Phe Asp
            180                 185                 190

Gly Asp Val Gly Val Phe Pro Leu Glu Phe Asn Lys Asn Ser Leu Thr
        195                 200                 205

Phe Ser Ile Pro Pro Lys Asn Lys Ala Arg Leu Lys Lys Ile Lys Asp
    210                 215                 220

Asp Thr Gly Pro Val Ala Lys Lys Pro Xaa Xaa Gly Lys Lys Gly Ala
225                 230                 235                 240

Thr Thr Gln Asn Xaa Glu Ile Xaa Ser Gly Gln Ala Pro Thr Pro Asp
                245                 250                 255

Gln Gln Thr Pro Xaa Ser Xaa Gln Ser Glu Gly
            260                 265
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<210> 4938
<211> 447
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (365)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4938
Gly Arg Ala Ser Gln Ala Pro Ser Ser Gly Leu Pro Ala Gly Gly Ala
1 5 10 15

Asn Gly Glu Ser Pro Gly Gly Gly Ala Pro Phe Pro Gly Ser Ser Gly
20 25 30

Ser Ser Ala Leu Leu Gln Ala Glu Val Leu Asp Leu Asp Glu Asp Glu
35 40 45

Asp Asp Leu Glu Val Phe Ser Lys Asp Ala Ser Leu Met Asp Met Asn
50 55 60

Ser Phe Ser Pro Met Met Pro Thr Ser Pro Leu Ser Met Ile Asn Gln
65 70 75 80

Ile Lys Phe Glu Asp Glu Pro Asp Leu Lys Asp Leu Phe Ile Thr Val
85 90 95

Asp Glu Pro Glu Ser His Val Thr Thr Ile Glu Thr Phe Ile Thr Tyr
100 105 110

Arg Ile Ile Thr Lys Thr Ser Arg Gly Glu Phe Asp Ser Ser Glu Phe
115 120 125

Glu Val Arg Arg Arg Tyr Gln Asp Phe Leu Trp Leu Lys Gly Lys Leu
130 135 140

Glu Glu Ala His Pro Thr Leu Ile Ile Pro Pro Leu Pro Glu Lys Phe
145 150 155 160

Ile Val Lys Gly Met Val Glu Arg Phe Asn Asp Asp Phe Ile Glu Thr
165 170 175

Arg Arg Lys Ala Leu His Lys Phe Leu Asn Arg Ile Ala Asp His Pro
180 185 190

Thr Leu Thr Phe Asn Glu Asp Phe Lys Ile Phe Leu Thr Ala Gln Ala
195 200 205

Trp Glu Leu Ser Ser His Lys Lys Gln Gly Pro Gly Leu Leu Ser Arg
210 215 220

Met Gly Gln Thr Val Arg Ala Val Ala Ser Ser Met Arg Gly Val Lys
225 230 235 240

Asn Arg Pro Glu Glu Phe Met Glu Met Asn Asn Phe Ile Glu Leu Phe

245 250 255

Ser Gln Lys Ile Asn Leu Ile Asp Lys Ile Ser Gln Arg Ile Tyr Lys
260 265 270

Glu Glu Arg Glu Tyr Phe Asp Glu Met Lys Glu Tyr Gly Pro Ile His
275 280 285

Ile Leu Trp Ser Ala Ser Glu Glu Asp Leu Val Asp Thr Leu Lys Asp
290 295 300

Val Ala Ser Cys Ile Asp Arg Cys Cys Lys Ala Thr Glu Lys Arg Met
305 310 315 320

Ser Gly Leu Ser Glu Ala Leu Leu Pro Val Val His Glu Tyr Val Leu
325 330 335

Tyr Ser Glu Met Leu Met Gly Val Met Lys Arg Arg Asp Gln Ile Gln
340 345 350

Ala Glu Leu Asp Ser Lys Val Glu Val Leu Thr Tyr Xaa Lys Ala Asp
355 360 365

Thr Asp Leu Leu Pro Glu Glu Ile Gly Lys Leu Glu Asp Lys Val Glu
370 375 380

Cys Ala Asn Asn Ala Leu Lys Ala Asp Trp Glu Arg Trp Lys Gln Asn
385 390 395 400

Met Gln Asn Asp Ile Lys Leu Ala Phe Thr Asp Met Ala Glu Glu Asn
405 410 415

Ile His Tyr Tyr Glu Gln Cys Leu Ala Thr Trp Glu Ser Phe Leu Thr
420 425 430

Ser Gln Thr Asn Leu His Leu Glu Glu Ala Ser Glu Asp Lys Pro
435 440 445

<210> 4939
<211> 323
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (219)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (234)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4939

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Ala Ala Ala Ala Gln Gly Leu Val Arg Ala Gly Arg Arg Glu Leu Met
  1               5                  10                  15

Ala Glu Glu Glu Ser Asp Gln Glu Ala Glu Arg Leu Gly Glu Glu Leu
             20                  25                  30

Val Ala Ile Val Glu Ser Pro Leu Gly Pro Val Gly Leu Arg Ala Ala
         35                  40                  45

Gly Asp Gly Arg Gly Gly Ala Gly Ser Gly Asn Cys Gly Gly Gly Val
     50                  55                  60

Gly Ile Ser Ser Arg Asp Tyr Cys Arg Arg Phe Cys Gln Val Val Glu
 65                  70                  75                  80

Asp Tyr Ala Gly Arg Trp Gln Val Pro Leu Pro Gln Leu Gln Val Leu
                 85                  90                  95

Gln Thr Ala Leu Cys Cys Phe Thr Thr Ala Ser Ala Ser Phe Pro Asp
            100                 105                 110

Glu Cys Glu His Val Gln Tyr Val Leu Xaa Ser Leu Ala Val Ser Phe
        115                 120                 125

Phe Glu Leu Leu Leu Phe Phe Gly Arg Asp Glu Phe Tyr Glu Glu Pro
    130                 135                 140

Leu Lys Asp Ile Leu Gly Ser Phe Gln Glu Cys Gln Asn His Leu Arg
145                 150                 155                 160

Arg Tyr Gly Asn Val Asn Leu Glu Leu Val Thr Arg Ile Ile Arg Asp
                165                 170                 175

Gly Gly Pro Trp Glu Asp Pro Val Leu Gln Ala Val Leu Lys Ala Gln
            180                 185                 190

Pro Ala Ser Gln Glu Ile Val Asn Lys Tyr Leu Ser Ser Glu Asn Pro
        195                 200                 205

Leu Phe Phe Glu Leu Arg Ala Arg Tyr Leu Xaa Ala Cys Glu Arg Ile
    210                 215                 220
```

Pro Glu Ala Met Ala Leu Ile Lys Ser Xaa Ile Asn His Pro Glu Ile
225 230 235 240

Ser Lys Asp Leu Tyr Phe His Gln Ala Leu Phe Thr Cys Leu Phe Met
245 250 255

Ser Pro Val Glu Asp Gln Leu Phe Arg Glu Val Leu Phe Glu Thr Ile
260 265 270

Phe Ala Tyr Tyr His Phe Asn Pro Thr Lys Lys Lys Pro Lys Lys Lys
275 280 285

Ser Ser Pro Leu Leu Leu Leu Asn Ser Phe Tyr Ser Asn Ala Lys Asp
290 295 300

Leu Arg Ile Thr Leu Ser Gly Cys Val Phe Phe Trp His His Asn Leu
305 310 315 320

Arg Ser Cys

<210> 4940
<211> 35
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4940
Xaa Asn Leu Leu Phe Val Gly Phe Xaa Lys Ser Phe Ala Cys Ile Xaa
1 5 10 15

Tyr Lys Thr Thr Thr Val Tyr Met Leu Leu Pro Leu Ala Asp Glu Leu
20 25 30

Xaa Xaa Lys
35

<210> 4941
<211> 58
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4941
Met Asn Gly Pro Val Leu Asp Pro Asp Lys Glu Glu Xaa Thr Met Glu
1 5 10 15

Ala Leu Gly Met Ile Glu Thr Arg Gly Leu Val Ala Leu Ile Glu Ala
20 25 30

Ser Asp Ala Met Val Lys Ala Ala Arg Val Lys Leu Val Gly Val Lys
35 40 45

Gln Ile Gly Gly Gly Leu Cys Thr Ala Met
50 55

<210> 4942
<211> 48
<212> PRT
<213> Homo sapiens

<400> 4942
Pro Leu Lys Cys Phe Tyr Phe Gly Asn Phe Val Met Leu Ser Thr Phe
1 5 10 15

Val Ser Ala Gln Phe Ser Arg Leu Arg Ile Asn Leu Leu Phe Leu Asn
20 25 30

Ser Thr Ala Asp Phe Ser Phe Lys Phe His Arg Leu Ser Thr Tyr Ile
35 40 45

<210> 4943
<211> 80
<212> PRT
<213> Homo sapiens

<400> 4943
Trp Gln Asn Gly Arg Leu Ile Phe Ser Ile Ile Ile Gly Glu His Ile
1 5 10 15

Ile Phe Trp Asn His Ala Ile Leu His Thr Val Lys Pro Leu Ile Phe
20 25 30

Gln Gly Asn Ser Phe Arg Ile Trp Tyr Trp His Ala Val Ser Tyr Leu
35 40 45

Ser Arg Ile Phe Gly Leu Ser Glu Arg Tyr Gln Phe Lys Ile Ser Gly
50 55 60

Ser Val Arg Ile Phe Asp Pro Ser Gln Cys Gln Tyr Leu Met Asn His
65 70 75 80

<210> 4944
<211> 42
<212> PRT
<213> Homo sapiens

<400> 4944
Lys Ser Ser Arg Lys Leu Leu Leu Lys Lys Thr Gly Tyr Leu Asn Ile
1 5 10 15

Glu Ile Tyr Val Cys Cys Glu Phe Lys Glu Pro Val Ile Val Ser Phe
20 25 30

Thr Lys Pro Ser Val Phe Asn Gly Cys Lys
35 40

<210> 4945
<211> 77
<212> PRT
<213> Homo sapiens

<400> 4945
Arg Asn Val Asn Leu Cys Cys Phe Leu Cys Thr Ile Ala Ala Val Val
1 5 10 15

Ser Leu Leu Glu Ile Asn Ile Pro Tyr Tyr Asp Val Tyr Glu Tyr Arg
20 25 30

Phe Pro Phe Leu Pro Ser Leu Pro Pro Ser Pro Thr Phe Leu Phe Phe
35 40 45

Phe Ser Leu Ser Ala Ser Leu Phe Leu Leu Pro Ser Ser Leu Pro Leu
50 55 60

Ser Leu Leu Phe Leu Lys Ser Leu Ile Val Asn Lys Leu
65 70 75

<210> 4946
<211> 112
<212> PRT
<213> Homo sapiens

<400> 4946
Asn Ser Phe Cys Tyr Phe His Ile Arg Val Gln Thr Tyr Lys Gly Ala
1 5 10 15

Cys Ser Leu Lys Val His Asn Tyr Ser Tyr Ser Val Cys Leu Tyr Cys
20 25 30

Tyr Arg Met Leu Cys Phe Gly Ala Leu Ser Ser Ala Asp Pro Arg Ser
35 40 45

Ser Val Glu Ile His Cys Leu Gly His Ser Leu Ile Arg Met Leu Ala
50 55 60

Gly Asp Phe Val Ser Asp Val Ala Ser Leu Phe Ser Val His Arg Leu
65 70 75 80

Arg Val Thr Thr Val Ala Cys Arg Val His Pro Val Gly Ala Ala Gln
85 90 95

Leu Ser Glu Ser Lys Asn Leu Pro Thr Tyr Ser Asn Val Phe Ala Leu
100 105 110

<210> 4947
<211> 67
<212> PRT
<213> Homo sapiens

<400> 4947
Leu Ala Ser Glu Ser Val Val Gln Leu Val Cys Thr Gly Leu Lys Ala
1 5 10 15

Gly Glu Trp Val Ile His His His Lys Gly Cys Pro Phe Phe Ala Val
20 25 30

Thr Ala Asp Ala Cys Gly Arg Arg Ala Gln Gly Ser His Tyr His Phe
35 40 45

Ser Leu Leu Thr Pro Arg Lys Leu Ser Thr Phe Leu Asp Thr Leu Phe
50 55 60

Lys Val Leu
65

<210> 4948
<211> 277
<212> PRT
<213> Homo sapiens

<400> 4948
Val Ile Leu Asp Gly Leu Leu Thr Trp Gly Gln Phe Lys Gln His Tyr
1 5 10 15

Asn Arg His Phe Gly Phe Leu Gly Asp Phe Ile Gly Gln Val Gln Ser
20 25 30

Arg Lys Cys Ile Glu Asp Val Ile His Phe Ala Trp Glu Glu Lys Leu
35 40 45

Phe Leu Leu Ala Asp Glu Val Tyr Gln Asp Asn Val Tyr Ser Pro Asp
50 55 60

Cys Arg Phe His Ser Phe Lys Lys Val Leu Tyr Glu Met Gly Pro Glu
65 70 75 80

Tyr Ser Ser Asn Val Glu Leu Ala Ser Phe His Ser Thr Ser Lys Gly
85 90 95

```
Tyr Met Gly Glu Cys Gly Tyr Arg Gly Gly Tyr Met Glu Val Ile Asn
            100                 105                 110

Leu His Pro Glu Ile Lys Gly Gln Leu Val Lys Leu Leu Ser Val Arg
        115                 120                 125

Leu Cys Pro Pro Val Ser Gly Gln Ala Ala Met Asp Ile Val Val Asn
    130                 135                 140

Pro Pro Val Ala Gly Glu Glu Ser Phe Glu Gln Phe Ser Arg Glu Lys
145                 150                 155                 160

Glu Ser Val Leu Gly Asn Leu Ala Lys Lys Ala Lys Leu Thr Glu Asp
                165                 170                 175

Leu Phe Asn Gln Val Pro Gly Ile His Cys Asn Pro Leu Gln Gly Ala
            180                 185                 190

Met Tyr Ala Phe Pro Arg Ile Phe Ile Pro Ala Lys Ala Val Glu Ala
        195                 200                 205

Ala Gln Ala His Gln Met Ala Pro Asp Met Phe Tyr Cys Met Lys Leu
    210                 215                 220

Leu Glu Glu Thr Gly Ile Cys Val Val Pro Gly Ser Gly Phe Gly Gln
225                 230                 235                 240

Arg Glu Gly Thr Tyr His Phe Arg Met Thr Ile Leu Pro Pro Val Glu
                245                 250                 255

Lys Leu Lys Thr Val Leu Gln Lys Val Lys Asp Phe His Ile Asn Phe
            260                 265                 270

Leu Glu Lys Tyr Ala
        275
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<210> 4949
<211> 73
<212> PRT
<213> Homo sapiens

<400> 4949

```
Glu Asn Pro Ser Phe Thr Arg Arg Pro Asp Ser Phe Tyr Thr Ser Phe
  1               5                  10                  15

Ile Met Leu Asp Cys Asn Lys Phe Gln Ile Leu Glu Trp Ala Tyr Leu
             20                  25                  30
```

Thr Asp Leu Thr Ile Leu Met Ile Ser Ile Arg Ile Thr Tyr Ser Lys
35 40 45

Val Lys Ser Gly Lys Thr Leu Leu Val Phe Ile Leu Ile Ser Leu Tyr
50 55 60

Ser Phe Leu Asn Met Glu Ile Gln Trp
65 70

<210> 4950
<211> 33
<212> PRT
<213> Homo sapiens

<400> 4950
Ser Pro Ala Lys Trp Leu Met Pro Glu Ile Pro Ala Leu Cys Glu Ala
1 5 10 15

Lys Ala Gly Gly Ser Pro Glu Ala Arg Ser Ser Arg Val Ala Trp Ala
20 25 30

Ala

<210> 4951
<211> 75
<212> PRT
<213> Homo sapiens

<400> 4951
Gly Arg Ala Val Leu Glu Ile Asp Trp Val Gly Leu Glu Pro Glu Phe
1 5 10 15

Ile Phe Leu Ile Cys Ile Pro Gly Asp Ser Cys Glu Ser Asp Ala Phe
20 25 30

Gly Asn His Cys Thr Lys Ser Tyr Leu Trp Val Leu Gln Thr Ala Ser
35 40 45

Pro Glu Ala Ser Leu Gly Leu Arg Ile Phe Ser Ser Asn Val Leu Val
50 55 60

Arg Ser Leu Ser Ile Leu Trp Gly Trp Leu Trp
65 70 75

<210> 4952
<211> 30
<212> PRT
<213> Homo sapiens

<400> 4952
Ile Phe Ser Ile Phe Thr Val Leu Val Tyr Phe Phe Pro Val Thr Val
1 5 10 15

Cys Met Asn Thr Asn Val Val Phe Asn Pro Pro Phe Gln Phe
20 25 30

<210> 4953
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4953
Gly Ala Leu Asp Cys Gly Ser Pro Ala Ser Ser Thr Pro Tyr Phe Thr
1 5 10 15

Gly Leu Glu Leu Pro Gly Asp Xaa Lys Leu Asp Ala Pro Tyr Asn Phe
20 25 30

Asn His Pro Phe Ser Ile Asn Asn Leu Met Xaa Glu Gln Thr Pro Ala
35 40 45

Pro Pro Lys Leu Asp Val Gly Phe Xaa Gly Tyr Gly Ala Glu Gly Gly
50 55 60

Glu Pro Gly Val Tyr Tyr Gln Gly Leu Tyr Ser Arg Ser Leu Leu Asn
65 70 75 80

Ala Ser

<210> 4954
<211> 120
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4954
Asp Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser
1 5 10 15

Gly Ile Pro Gly Ser Thr His Ala Ser Asp Cys Phe Val Phe Ser Arg
20 25 30

Val Leu Tyr Lys Trp Asn Tyr Ile Val Cys Thr Phe Leu Tyr Ser Leu
35 40 45

Ala Ser Phe Thr Gln Ile Ile Ile Leu Arg Phe Phe Ser Val Val Ala
50 55 60

Cys Ile Asn Asn Ser Phe Ile Phe Cys Ser Asn Ile Pro Leu Tyr Gly
65 70 75 80

Tyr Thr Lys Ile Tyr His Ser Phe Ala Asp Glu His Leu Gly Tyr Leu
85 90 95

Gln Phe Tyr Leu Gln Xaa Lys Leu Leu Arg Ile Leu Val Tyr Glu Ser
100 105 110

Leu Tyr Gly His Ile Xaa Ser Phe
115 120

<210> 4955
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4955
Phe Ile Asn Gly Lys Pro Glu Val Lys Lys Asp Leu Leu Glu Ala Gln
1 5 10 15

Thr Asn Ile Ala Phe Leu Gln Ser Glu Leu Asp Ala Leu Lys Ser Xaa
20 25 30

Tyr Ala Asp Xaa Ser Leu Xaa Thr Glu Xaa Asp Leu
35 40

<210> 4956
<211> 68
<212> PRT
<213> Homo sapiens

<400> 4956
Asp Ser Gly Ala Ala Phe Ser Phe Gly Gly Leu Ala Phe Ile Val Glu
1 5 10 15

Asn Ala Met Gly Ser Phe Gln Asn Gly Tyr Leu Ser Asn Leu Ser Ile
20 25 30

Phe Gln Asn Ser Tyr Phe Phe Pro Ala His Gly Gln Thr Arg Glu Phe
35 40 45

Ser Ser Val Leu Arg His Glu Asn Leu Val Gly His Leu Lys Val Lys
50 55 60

Ser Val Asn Val

65

<210> 4957
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4957
Pro Pro Ala Ala Ala Ser His Leu Gly Asn Ile Glu Asn Gln Gly Asn
1 5 10 15

Gly Leu Lys Ala Gly Arg Ser Val Cys Gln Gln Gly Pro Asn Tyr Val
20 25 30

Arg Trp Thr Arg Gly Thr His Leu Gln Gly Gly Lys Ser Arg Gly Arg
35 40 45

Thr Ser Gly Asp Trp Pro Lys Val Leu Pro Cys Leu Gln Asp Glu Thr
50 55 60

Arg Leu Leu Ser Pro Ala Phe Xaa Ala Pro Ala Thr Arg Leu Leu Leu
65 70 75 80

Thr Asp Pro Ser Leu Pro Leu Ser Ala Ser Ile Gln Val Ala Val Pro
85 90 95

Ala Leu Cys Xaa Ala Leu Ser Cys Leu Cys Ile Leu His Lys Leu
100 105 110

<210> 4958
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4958
Pro Gln Arg Xaa Val Lys Ser Phe Cys His Tyr Leu His Lys Cys Val
1 5 10 15

Lys His Arg Phe Gln Gln Ser Ala Trp His Ile Xaa Gly Cys Ser Met
20 25 30

Val Xaa Phe Ile Ile Ile Thr Gln Ile Pro Gln Trp Gln Glu Thr Ser
35 40 45

Phe Tyr Ile Met Glu Asn Ile Tyr Ile Lys Ser His Leu Leu
50 55 60

<210> 4959
<211> 44
<212> PRT
<213> Homo sapiens

<400> 4959
Ala Ile His Ser Leu Gln Gln Phe Asp Lys Ile Tyr Phe Cys Glu Gln
1 5 10 15

Lys Leu Arg His Leu His Phe Leu Pro Met Trp Ser Leu Gln Thr Trp
20 25 30

Glu Thr Ile His Glu Tyr Leu Tyr Cys Met Val Ile
35 40

<210> 4960
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4960
His Ile Phe Xaa Phe Phe Phe Phe Cys Tyr Thr Lys Ser Arg Phe Leu
1 5 10 15

Leu Asn Leu Cys Asn Asn Tyr Ile Thr Ile Gln Tyr Lys Tyr Cys Thr
20 25 30

Ser Ser Ile Lys Ile Cys Ser Leu Tyr Asp Arg Ile His Leu Lys Thr
35 40 45

Leu Val Ile Leu Pro Arg Leu
50 55

<210> 4961
<211> 70
<212> PRT
<213> Homo sapiens

<400> 4961
Ser Asn Gln Gly Asp His Gln Val Lys Leu Lys His Lys Ile Ile Val
1 5 10 15

Gly Gly Phe Leu Val Lys Asp Val Asn Val Gly Phe Pro Thr His His
20 25 30

Gly Val Ser Thr His His Cys Met Leu Gly Thr Ala Val Ser Leu Gly
35 40 45

His Glu Leu Lys Glu His Thr Asn Phe Trp Ser Val Pro Ala Ala Ser
50 55 60

Arg Pro Ser Phe Cys Tyr
65 70

<210> 4962
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4962
Val Gln Pro Gln His Ala Cys Thr Gln Ala Leu Ile Lys Thr Ala Cys
1 5 10 15

Cys Ser Pro Leu Pro Arg Val Val Cys Trp Arg Ala Val Gly Val Arg
20 25 30

Thr Asp Thr Arg Thr Phe His Leu Pro Gly Ala Leu Ala Ser Ser Ile
35 40 45

Ser Phe Ser Thr Val Leu Lys Gln Asp Arg Xaa Ser Glu Arg Pro Val
50 55 60

Ile Cys Pro Lys Cys Cys Arg Arg Arg Leu Asn Val Leu Glu Ser Leu
65 70 75 80

Leu Ser His Leu His Tyr Asp Lys Ser Ile Val Pro Asn Arg
85 90

<210> 4963
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4963
Leu Ala His Ile Lys Ile Val Glu Pro His Thr Leu Asn Leu Ala Asn
1 5 10 15

Leu Val Thr Ala Gly Leu His Tyr Pro Val Leu Phe Phe Thr Arg Leu
20 25 30

Thr Leu Pro Cys Ser Trp Cys Cys Val Asp Leu Cys Xaa Lys His Asn
35 40 45

Arg Asn Ile
50

<210> 4964
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4964
Trp Ser Val Gln Pro His Ser Asp Ile Thr Met Arg Ser Trp Ile Ser
1 5 10 15

Ile Pro Trp Gly Gly Pro Val Arg His Leu Leu His Pro Trp Asn Trp
20 25 30

Ile Ile Leu Glu Xaa Lys Pro Gly Thr
35 40

<210> 4965
<211> 51
<212> PRT
<213> Homo sapiens

<400> 4965
Gly Arg Arg Gln Ser Ser Gly Ser Ser Ser Pro Ala Ala Tyr Gly Thr
1 5 10 15

Leu Pro Cys Leu Asp Pro Ser Ile Arg Lys Thr Tyr Pro Ser Thr Thr
20 25 30

Gly Lys Ser Ala Asn Leu Asn Pro Lys Met Ala Met Ile Ser Val Cys
35 40 45

Glu Thr Ser
50

<210> 4966
<211> 160
<212> PRT
<213> Homo sapiens

<400> 4966
Ile Phe Leu Val Phe Cys Lys Leu Ser Val Ile Phe Ser Ser Leu Leu
1 5 10 15

Arg Lys Met Ala Thr Gln Met Val Ala Ala Gln Leu Ala Ser Met Val
20 25 30

Trp Asn Asn Pro Ser Gln Gln Gln Phe Met Gln Phe Gly Gly Ser Ser
35 40 45

```
Gly Ser Gln Leu Pro Gln Ile Gln Thr Asp Val Val Leu Pro Ser Cys
     50                  55                  60

Lys Lys Lys Ala Pro Ala Glu Thr Pro Val Lys Glu Arg Leu Phe Ile
 65                  70                  75                  80

Val Phe Asn Pro His Pro Leu Pro Leu Asp Val Leu Glu Asp Ile Phe
                85                  90                  95

Cys Arg Phe Gly Asn Leu Ile Glu Val Tyr Leu Val Ser Gly Lys Asn
            100                 105                 110

Val Gly Tyr Ala Lys Tyr Ala Asp Arg Ile Ser Ala Asn Asp Ala Ile
        115                 120                 125

Ala Thr Leu His Gly Lys Ile Leu Asn Gly Val Arg Leu Lys Val Met
    130                 135                 140

Leu Ala Asp Ser Pro Arg Glu Glu Ser Asn Lys Arg Gln Arg Thr Tyr
145                 150                 155                 160
```

<210> 4967
<211> 57
<212> PRT
<213> Homo sapiens

<400> 4967

```
Lys Ser Glu Thr Pro Ser Gln Glu Lys Lys Lys Lys Lys Val Tyr Ser
  1               5                  10                  15

Asn Arg Gln Ile Arg Gly Leu Arg Asp Pro Pro Leu Leu Leu Leu Pro
             20                  25                  30

Glu Val Cys Arg Thr Val Tyr Arg Tyr Leu Leu Asp Arg Cys Pro Leu
         35                  40                  45

Ser Tyr Phe Ile Cys Thr Val Ile Leu
     50                  55
```

<210> 4968
<211> 68
<212> PRT
<213> Homo sapiens

<400> 4968
Met Ser Lys Gly Thr Pro Leu Asn Thr Lys Thr Phe Ser Ser Trp Gln
1 5 10 15

Thr Tyr Leu Ala Arg Ser Trp Arg Arg Val Arg Phe Gln Thr Met Leu
20 25 30

Pro Phe Cys Pro Cys Gln Tyr Val Leu Thr Asp Cys Asp Ser Ala Val
35 40 45

Asn Thr His Thr His Thr Gln Thr His Thr Gln Ala Pro Ser Val Tyr
50 55 60

Asp Gln Asp Lys
65

<210> 4969
<211> 49
<212> PRT
<213> Homo sapiens

<400> 4969
Pro Val Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
1 5 10 15

Lys Lys Ser Pro Gly Val Pro Asn Ser Val Phe Pro Glu Glu Glu Asp
20 25 30

Leu Ser Tyr Leu Leu Lys Gln Arg Ser Pro Phe Pro Val Val Ser Leu
35 40 45

Leu

<210> 4970
<211> 199
<212> PRT
<213> Homo sapiens

<400> 4970
Ala Arg Thr Lys Lys Ile Pro Phe Leu Gly Val Cys Leu Gly Met Gln
1 5 10 15

Leu Ala Val Ile Glu Phe Ala Arg Asn Cys Leu Asn Leu Lys Asp Ala
20 25 30

```
Asp Ser Thr Glu Phe Arg Pro Asn Ala Pro Val Pro Leu Val Ile Asp
         35                  40                  45

Met Pro Glu His Asn Pro Gly Asn Leu Gly Gly Thr Met Arg Leu Gly
     50                  55                  60

Ile Arg Arg Thr Val Phe Lys Thr Glu Asn Ser Ile Leu Arg Lys Leu
 65                  70                  75                  80

Tyr Gly Asp Val Pro Phe Ile Glu Glu Arg His Arg His Arg Phe Glu
                 85                  90                  95

Val Asn Pro Asn Leu Ile Lys Gln Phe Glu Gln Asn Asp Leu Ser Phe
            100                 105                 110

Val Gly Gln Asp Val Asp Gly Asp Arg Met Glu Ile Ile Glu Leu Ala
        115                 120                 125

Asn His Pro Tyr Phe Val Gly Val Gln Phe His Pro Glu Phe Ser Ser
    130                 135                 140

Arg Pro Met Lys Pro Ser Pro Pro Tyr Leu Gly Leu Leu Leu Ala Ala
145                 150                 155                 160

Thr Gly Asn Leu Asn Ala Tyr Leu Gln Gln Gly Cys Lys Leu Ser Ser
                165                 170                 175

Ser Asp Arg Tyr Ser Asp Ala Ser Asp Asp Ser Phe Ser Glu Pro Arg
            180                 185                 190

Ile Ala Glu Leu Glu Ile Ser
        195
```

<210> 4971
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4971

```
Ala Ser Pro Gly Leu Gly Gly Ala Gln Ser Ser Val Leu His Asn Gly
 1               5                  10                  15

Phe Phe His Gly Ser Pro Gly Glu Leu Leu Tyr Thr Gln Lys Ile Gln
            20                  25                  30

Pro Leu Pro Ala Leu Ser Pro Phe Ser Leu Leu Leu Pro Phe Pro Met
        35                  40                  45

Pro Arg Ser Arg Gln Xaa Leu Thr Phe Arg Thr Ser Ile Ala Xaa Leu
    50                  55                  60

Ile Leu Arg Pro Leu Phe Lys Gly Gly
65                  70
```

<210> 4972
<211> 301
<212> PRT
<213> Homo sapiens

<400> 4972

```
Lys Ser Pro Gln Cys His Cys Leu Asp Leu Leu Glu Lys Tyr Gly Gln
  1               5                  10                  15

Gly Gly Asn Cys Thr Glu Gly Arg Met Val Phe Ser Tyr His Asn Ser
            20                  25                  30

Phe Leu Ile Ala Asp Arg Asn Glu Ala Trp Ile Leu Glu Thr Ala Gly
        35                  40                  45

Lys Tyr Trp Ala Ala Glu Lys Val Gln Glu Gly Val Arg Asn Ile Ser
    50                  55                  60

Asn Gln Leu Ser Ile Thr Thr Lys Ile Ala Arg Glu His Pro Asp Met
65                  70                  75                  80

Arg Asn Tyr Ala Lys Arg Lys Gly Trp Trp Asp Gly Lys Lys Glu Phe
                85                  90                  95

Asp Phe Ala Ala Ala Tyr Ser Tyr Leu Asp Thr Ala Lys Met Met Thr
            100                 105                 110

Ser Ser Gly Arg Tyr Cys Glu Gly Tyr Lys Leu Leu Asn Lys His Lys
        115                 120                 125

Gly Asn Ile Thr Phe Glu Thr Met Met Glu Ile Leu Arg Asp Lys Pro
    130                 135                 140

Ser Gly Ile Asn Met Glu Gly Glu Phe Leu Thr Thr Ala Ser Met Val
```

```
145                 150                 155                 160

Ser Ile Leu Pro Gln Asp Ser Ser Leu Pro Cys Ile His Phe Phe Thr
                165                 170                 175

Gly Thr Pro Asp Pro Glu Arg Ser Val Phe Lys Pro Phe Ile Phe Val
            180                 185                 190

Pro His Ile Ser Gln Leu Leu Asp Thr Ser Ser Pro Thr Phe Glu Leu
        195                 200                 205

Glu Asp Leu Val Lys Lys Lys Ser His Phe Lys Pro Asp Arg Arg His
    210                 215                 220

Pro Leu Tyr Gln Lys His Gln Gln Ala Leu Glu Val Val Asn Asn Asn
225                 230                 235                 240

Glu Glu Lys Ala Lys Ile Met Leu Asp Asn Met Arg Lys Leu Glu Lys
                245                 250                 255

Glu Leu Phe Arg Glu Met Glu Ser Ile Leu Gln Asn Lys His Leu Asp
            260                 265                 270

Val Glu Lys Ile Val Asn Leu Phe Pro Gln Cys Thr Lys Asp Glu Ile
        275                 280                 285

Gln Ile Tyr Gln Ser Asn Leu Ser Val Lys Val Ser Ser
    290                 295                 300
```

<210> 4973
<211> 66
<212> PRT
<213> Homo sapiens

```
<400> 4973
Glu Leu Gln Gly Asn Glu Met Leu Gly Asp Leu Gln Ser Phe Leu Gly
  1               5                  10                  15

Ala Val Arg Ala Val Met Leu Asp Val Lys Ser Val Thr Trp Lys Ala
             20                  25                  30

Asn Trp Lys Pro Trp Met Lys Val Tyr His Ala Gln Asn Thr Lys Lys
         35                  40                  45

Asp Lys Ser Arg Arg His Arg Ala Ser Val Gly Phe Pro Glu Glu Glu
     50                  55                  60

Thr Ala
 65
```

<210> 4974
<211> 68
<212> PRT
<213> Homo sapiens

<400> 4974
Cys Leu Thr Ser Leu Phe Ile Leu Asp Leu Asn Phe Ser Phe Leu Pro
1 5 10 15

Ser Pro Phe Thr Ser Ile Arg Arg Leu His His His Phe Phe Gly Pro
20 25 30

Leu Thr Leu Leu Ser Phe Pro Phe Ser Phe Ser Phe Phe Asn Arg Met
35 40 45

Ser Ser Ile Leu Ser Leu His Ser Pro Pro Asp Ala Val Asp Ser Ala
50 55 60

Met Leu Trp Ile
65

<210> 4975
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4975
Cys Phe Ser Pro Phe Leu Gln Met Phe Val Ser Ser Ser Gly Leu Pro
1 5 10 15

Pro Ser Pro Val Pro Ser Pro Arg Arg Phe Ser Ser Arg Arg Ser Gln

```
            20                  25                  30

Ser Pro Val Lys Cys Ile Arg Pro Ser Val Leu Gly Pro Leu Lys Arg
         35                  40                  45

Lys Gly Glu Met Glu Thr Glu Ser Gln Pro Lys Arg Leu Phe Gln Gly
     50                  55                  60

Thr Thr Asn Met Leu Ser Pro Asp Ala Ala Gln Leu Ser Asp Leu Ser
 65                  70                  75                  80

Ser Xaa Ser Asp Ile Leu Asp Gly Ser Xaa Ser Ser Ser Gly Leu Ser
                 85                  90                  95

Ser Asp Pro Leu Ala Lys Gly Ser Ala Thr Ala Glu Ser Pro Val Ala
            100                 105                 110

Cys Ser Asn Ser Cys Ser Ser Phe Ile Leu Met Xaa Asp Leu Ser Pro
        115                 120                 125

Lys
```

<210> 4976
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4976

```
Glu Arg Val Gln Val Asn Ala Asn Asp Val Leu Ala Thr Phe Ser Gln
  1               5                  10                  15

Lys Ile Leu His Trp Asn Thr Asp Cys Asn Ile Lys Leu Leu Cys Val
            20                  25                  30
```

Tyr Cys Phe Tyr Xaa Cys Ile His Arg Xaa Val Phe Tyr Arg Tyr Ile
35 40 45

Arg Ser Met Ala Leu Xaa
50

<210> 4977
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4977
Val Ile Ala Val Gln Glu Pro Gly Val Pro Ser Arg Asp Pro Cys Leu
1 5 10 15

Glu Ala Gln Glu Arg Pro Ala Ala Ser Met Pro Trp Asp Ala Arg Arg
20 25 30

Pro Gly Gly Gly Ala Asp Gly Gly Pro Glu Ala Ser Gly Ala Ala Arg
35 40 45

Ser Arg Ala Gln Lys Gln Cys Arg Lys Ser Ser Phe Ala Phe Tyr Gln
50 55 60

Ala Val Arg Asp Leu Leu Pro Val Trp Leu Leu Gly Xaa Tyr
65 70 75

<210> 4978
<211> 141
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4978
Arg Glu Gln Pro Ala Gly His Thr Pro Leu Pro Val Pro Ala Xaa Gln
1 5 10 15

```
Pro Val Asp Tyr Phe Ile Leu Ile Leu Gln Gly Arg Val Glu Val Glu
            20                  25                  30

Ile Gly Lys Glu Gly Leu Lys Phe Glu Asn Gly Ala Phe Thr Tyr Tyr
        35                  40                  45

Gly Val Ser Ala Leu Thr Val Pro Ser Ser Val His Gln Ser Pro Val
    50                  55                  60

Ser Ser Leu Gln Pro Ile Arg His Asp Leu Gln Pro Asp Pro Gly Asp
65                  70                  75                  80

Gly Thr His Ser Ser Ala Tyr Cys Pro Asp Tyr Thr Val Arg Arg Ser
                85                  90                  95

Leu Ile Cys Ser Ser Ser Arg Leu Arg Asp Cys Ser Thr Ser Met His
            100                 105                 110

Ser Trp Leu Pro Glu Pro Arg Thr Cys His Ser Pro Leu Arg Thr Pro
        115                 120                 125

Thr Cys Ser Tyr Ser Arg Gln Pro Asp Gln Ala Pro Trp
    130                 135                 140
```

<210> 4979
<211> 79
<212> PRT
<213> Homo sapiens

<400> 4979

```
Lys Asp Leu Asp Asn Gln Thr Ile Ile Val Gly Asn Phe Asn Thr Pro
  1               5                  10                  15

Leu Thr Val Leu Asp Arg Ser Leu Arg Gln Lys Thr Asn Lys Glu Met
            20                  25                  30

Leu Asp Leu Asn Ser Ala Leu Asn Gln Leu Lys Leu Ile Asp Lys Tyr
        35                  40                  45

Arg Thr Leu His Pro Lys Gly Met Leu Ile His Cys Trp Trp Lys Cys
    50                  55                  60

Lys Leu Val Gln Ala Leu Arg Lys Ala Val Trp Arg Phe Leu Lys
65                  70                  75
```

<210> 4980
<211> 56

<212> PRT
<213> Homo sapiens

<400> 4980
Asp Pro Lys Cys Leu Gly Pro Lys Tyr Phe Gly Phe Phe Gln Ile Leu
1 5 10 15

Glu Tyr Leu His Tyr Thr Leu Met Ser Ile Ser Phe Glu His His Val
20 25 30

Gly Val Leu Lys Ala Ser Asp Phe Gly Ala Phe His Ile Leu Asp Phe
35 40 45

Gln Ile Arg Asp Ala Gln Pro Val
50 55

<210> 4981
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4981
Gly Xaa Tyr Gln Ala Asn Ile Ala Glu Leu Thr His Ala Asn Asn Arg
1 5 10 15

Val Asp Gln Asn Glu Ala Glu Val Lys Lys Leu Arg Leu Arg Val Glu
20 25 30

Glu Leu Lys Gln Gly Leu Asn Gln Lys Glu Asp Glu Leu Asp Asp Ser
35 40 45

Leu Asn Gln Ile Arg Lys Leu Gln Arg Ser Leu Asp Glu Glu Lys Glu
50 55 60

Arg Asn Glu Asn Leu Glu Thr Glu Leu Arg His Leu Gln Asn Trp
65 70 75

<210> 4982
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4982
Gly Pro His Pro Gly Gly Gly Pro Trp Gly Gly Asp Arg Glu Val Ala
1 5 10 15

Leu Lys Asn Thr Ala Val Leu Ile Leu His Ser Met Gly Pro His Pro
20 25 30

Gly Gly Gly Gly Gly Ser His Cys Ile Cys Trp Leu Arg Ala Pro Ala
35 40 45

Cys Ala Ser Arg Ala Pro Gly Leu Leu Cys Leu Leu Ser Val Pro Ile
50 55 60

Ser Ile Lys Gly Leu Pro Leu Gly Gly Gln Lys Lys Lys Lys Lys Lys
65 70 75 80

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
85 90 95

Lys Lys Lys Xaa Gly Xaa Pro Phe
100

<210> 4983
<211> 65
<212> PRT
<213> Homo sapiens

<400> 4983
Arg Lys Lys Gln Ile Ala Leu Asn Ala Val Tyr Pro Lys Thr Arg Phe
1 5 10 15

Pro Gly Cys Pro Ser Thr Leu Tyr Arg Pro Pro Phe Trp Leu Leu Thr
20 25 30

Gln Cys Ile Phe Cys Tyr Ile Lys Met Gly Pro Arg Leu His Leu Leu
35 40 45

Arg Asn Tyr Lys Leu Leu Gly Val Gln Gly Cys Val Ser Tyr Ile Leu
50 55 60

Pro
65

<210> 4984
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4984
Gly Val Lys Glu Ser Gly Val Thr Asn Val Val Ala Gly Ala Thr Leu
1 5 10 15

Lys Leu Cys Ser Val Pro Trp Lys Lys Glu Glu Glu Glu Glu Ala Lys
20 25 30

Leu Glu Gly Lys Ala Pro Gly Val Ser Ser Trp Asn Leu Arg Trp Glu
35 40 45

Glu Thr Leu Lys Val Ile Trp Ser Ser Ile Phe Gln Ser Met Phe His
50 55 60

Glu Leu Val Phe Gln Lys Trp Phe Pro Gly Leu Val Ser Gly Ser Ser
65 70 75 80

Met Arg Val Ala Val Val Tyr Phe Val His Arg Cys Ile Leu Xaa Asp
85 90 95

<210> 4985
<211> 77
<212> PRT
<213> Homo sapiens

<400> 4985
Ala Ala Gly Ser Asn Ala Ser Gln Ala Glu His Ser Val Ser Arg Asp
1 5 10 15

Ser Cys Val Glu Gln Ile Arg Val His Ala Gln Val Pro Arg Leu Glu
20 25 30

Trp Leu Cys Gln Asn Pro Phe Lys Gly Phe Ser Phe Ser Leu Leu Gly
35 40 45

Gln Asn Ile Leu Ser His Leu Gly Arg Phe Arg Met Gly Arg Ala Asn
50 55 60

Leu Asn Lys Arg Phe Phe Leu Tyr Pro Glu Ile Glu Gly
65 70 75

<210> 4986
<211> 287
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (193)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (201)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4986
Leu Leu Ala Pro Thr Arg Arg His Ser Pro Gly Ser Pro Ala Phe Ala
1 5 10 15

Pro Ser Ser Arg Ala Thr Ala Met Cys Pro Arg Ala Ala Arg Ala Pro
20 25 30

Ala Thr Leu Leu Leu Ala Leu Gly Ala Val Leu Trp Pro Ala Ala Gly
35 40 45

Ala Trp Glu Leu Thr Ile Leu His Thr Asn Asp Val His Ser Arg Leu
50 55 60

Glu Gln Thr Ser Glu Asp Ser Ser Lys Cys Val Asn Ala Ser Arg Cys
65 70 75 80

Met Gly Gly Val Ala Arg Leu Phe Thr Lys Val Gln Gln Ile Arg Arg
85 90 95

```
Ala Glu Pro Asn Val Leu Leu Leu Asp Ala Gly Asp Gln Tyr Gln Gly
            100                 105                 110

Thr Ile Trp Phe Thr Val Tyr Lys Gly Ala Glu Val Ala His Phe Met
        115                 120                 125

Asn Ala Leu Arg Tyr Asp Ala Met Ala Leu Gly Asn His Glu Phe Asp
    130                 135                 140

Asn Gly Val Glu Gly Leu Ile Glu Pro Leu Leu Lys Glu Ala Lys Phe
145                 150                 155                 160

Pro Ile Leu Ser Ala Asn Ile Lys Ala Lys Gly Pro Leu Ala Ser Gln
                165                 170                 175

Ile Ser Gly Leu Tyr Leu Pro Tyr Lys Val Leu Pro Xaa Gly Asp Glu
            180                 185                 190

Xaa Val Gly Ile Val Gly Tyr Thr Xaa Lys Glu Thr Pro Phe Leu Ser
        195                 200                 205

Asn Pro Gly Thr Asn Leu Val Phe Glu Asp Glu Ile Thr Ala Leu Gln
    210                 215                 220

Pro Glu Val Asp Lys Leu Lys Thr Leu Asn Val Asn Lys Ile Ile Ala
225                 230                 235                 240

Leu Gly His Ser Gly Phe Glu Met Asp Lys Leu Ile Ala Gln Lys Val
                245                 250                 255

Arg Gly Val Asp Val Val Val Gly Gly His Ser Asn Thr Phe Leu Tyr
            260                 265                 270

Thr Gly Asn Cys Phe Lys Arg Ile Ala Trp Ala Arg Met Ser Arg
        275                 280                 285
```

<210> 4987
<211> 81
<212> PRT
<213> Homo sapiens

<400> 4987

```
Tyr Ala Ser Leu Gln Cys Tyr Trp Ser Lys Cys Met Ser Ile Ser Gln
  1               5                  10                  15

Arg Leu Tyr Pro Cys Ser Leu Thr Leu Gly Asn Leu Lys Ala Leu Ile
             20                  25                  30

Leu Leu Leu Ser Pro His Lys Glu Val Leu Leu Ser Gly Gly Arg Ala
```

35 40 45

Asp Val Gly His Pro Thr Glu Asn Phe Arg Asn His Val Arg Asp Asp
50 55 60

Ala Ser His Glu Arg Leu Arg Ala Ser Phe Arg Phe Gly Asn Ile Leu
65 70 75 80

Lys

<210> 4988
<211> 119
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4988
Leu Ala Ser Ser Arg Gly Gln Arg Thr Asp Ile Leu Pro Thr Phe Gly
1 5 10 15

Gly Pro Arg Glu Ala Pro Gly Ala Lys Val Leu Ala Leu Val Pro Gly
20 25 30

Thr Gln Glu Met Pro Ser Pro Val Gly Leu Leu Arg Ala Leu Pro Leu
35 40 45

Pro Trp Pro Gln Phe Leu Ala Cys Thr Leu Arg Arg Leu Ala Gly Pro
50 55 60

Arg Xaa Ser Thr Gly Pro Ser Gln Lys Pro Pro Pro Leu Cys Ser Val
65 70 75 80

Pro Cys Arg Val Pro Ala Asn Asp Gly Gly Gly Gly Pro Gly Lys Pro
85 90 95

```
Ser Ser Ala Leu Trp Thr Xaa Ser Ala Cys Tyr Ser Glu Xaa Gly Leu
            100                 105                 110

Glu Thr Ser Ser Ser Arg Ser
        115
```

<210> 4989
<211> 39
<212> PRT
<213> Homo sapiens

<400> 4989

```
Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu
  1               5                  10                  15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Ala Thr Val Pro
             20                  25                  30

Gly Leu Pro Trp Leu Phe Ser
         35
```

<210> 4990
<211> 97
<212> PRT
<213> Homo sapiens

<400> 4990

```
Ala Phe Tyr Cys Arg Pro Ser Pro Glu Lys Gly Ala Arg Val Phe Pro
  1               5                  10                  15

Glu Pro Arg Cys Gln Gly Pro Arg Thr Pro Phe Thr Ala Asp Pro Leu
             20                  25                  30

Gln Arg Leu Gly Arg Gly Leu Trp Arg Thr Trp Phe Leu Leu Thr Val
         35                  40                  45

Leu Pro Leu Gly Pro Pro Ser Gln Thr Gln Thr Ile Gln Asp Pro Leu
     50                  55                  60

Ser Val Arg Pro Asn Gly Asn Ser Glu Ala Val Ile Phe Pro Pro Leu
 65                  70                  75                  80

Pro Leu His Ser Leu Val Phe Cys Pro Leu Leu Cys Ser Ser Leu Pro
                85                  90                  95

Pro
```

<210> 4991
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4991
Met Glu Lys Leu Val Leu Asp His Asp Gly Lys Gly Val Leu Glu Leu
1 5 10 15

Leu Pro Phe Gly Ile Thr Asp Arg Thr Asp Phe Leu Ser Leu Ile Arg
20 25 30

Asn Ile Tyr Asn Leu Phe Ser Lys Ser Ala Thr Arg Arg Leu His Leu
35 40 45

His Asp Lys Thr Leu Val Ser Thr Thr Pro Tyr Leu Asn Pro Asp Ser
50 55 60

Pro Lys Phe Leu Asp Asn Asn Leu Thr Xaa Ser Ile His Ala Asn Gln
65 70 75 80

<210> 4992
<211> 137
<212> PRT
<213> Homo sapiens

<400> 4992
Leu Phe Pro Thr His Pro Lys Pro Arg Thr Arg Leu Phe Ser Leu Ser
1 5 10 15

Ser Gly Arg Met Arg Arg Ala Gly Leu Gly Glu Gly Val Pro Pro Gly
20 25 30

Asn Tyr Gly Asn Tyr Gly Tyr Ala Asn Ser Gly Tyr Ser Ala Cys Glu
35 40 45

Glu Glu Asn Glu Arg Leu Thr Glu Ser Leu Arg Ser Lys Val Thr Ala

```
     50                  55                  60

Ile Lys Ser Leu Ser Ile Glu Ile Gly His Glu Val Lys Thr Gln Asn
 65                  70                  75                  80

Lys Leu Leu Ala Glu Met Asp Ser Gln Phe Asp Ser Thr Thr Gly Phe
                85                  90                  95

Leu Gly Lys Thr Met Gly Lys Leu Lys Ile Leu Ser Arg Gly Ser Gln
            100                 105                 110

Thr Lys Leu Leu Cys Tyr Met Met Leu Phe Ser Leu Phe Val Phe Phe
        115                 120                 125

Ile Ile Tyr Trp Ile Ile Lys Leu Arg
    130                 135
```

<210> 4993
<211> 112
<212> PRT
<213> Homo sapiens

<400> 4993

```
Ser Thr Leu Leu Leu Leu Pro Leu Pro Val Arg Pro Ala Phe Gly Glu
  1               5                  10                  15

Lys Val Arg Leu Glu Leu Arg Arg Ala Ala Asn Pro Thr Val Pro Phe
             20                  25                  30

Arg Cys Leu Val Leu Pro Leu Gln Pro Arg Thr Leu Thr Phe Lys Arg
         35                  40                  45

Val Thr Ala Gly Arg Gln Gly Arg Gly Ser Arg Thr Leu Ser Glu Cys
     50                  55                  60

Leu Ala Val Pro Trp Pro Val Arg Ala Ser Trp Leu Thr Phe Gln Leu
 65                  70                  75                  80

Ala Glu Leu Trp Asp Thr Ser Phe Leu Val Ser Cys Ala Arg Ser Tyr
                85                  90                  95

Gly Lys Arg Glu Leu Gln Leu Arg Phe Ser Ser Ser Gln Thr Val Lys
            100                 105                 110
```

<210> 4994
<211> 65
<212> PRT
<213> Homo sapiens

<400> 4994
His Val Ala Leu Trp Leu Lys Phe Phe Asn Leu Glu Met Thr Gln Thr
1 5 10 15

His Arg Arg Cys Ser Asn Thr Thr Tyr Ser Ala Asn Leu Gly Lys Gly
20 25 30

Thr Ser Gln Leu Ala Arg Phe Pro His Tyr Leu Pro Cys Ile His Ala
35 40 45

Ala His Val Phe Phe Ile Arg Met Leu Val Lys Phe Trp Leu Leu Tyr
50 55 60

Ile
65

<210> 4995
<211> 35
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4995
Leu Lys Xaa Cys Val Cys Met Gln Thr Tyr Val Asn Thr His Ile His
1 5 10 15

Ile Gly Tyr Asp Asp Asp Asn Tyr Leu Leu Gln Ile Arg Cys Leu Leu
20 25 30

Tyr Val Tyr
35

<210> 4996
<211> 39
<212> PRT
<213> Homo sapiens

<400> 4996

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4998
Asn Tyr Arg Ser Lys Leu Phe Val Asp Asn Phe Arg Val Lys Phe Asp
1 5 10 15

Asn Leu Gly Tyr Leu Pro Asn Phe Lys Ile Glu Val Arg Ile Ser Val
20 25 30

Thr Gln Pro Trp Glu Xaa Trp Xaa Ser His Ile Arg
35 40

<210> 4999
<211> 44
<212> PRT
<213> Homo sapiens

<400> 4999
Thr Glu Asp Leu Phe Gly Phe Lys His Leu Leu Arg Gln Tyr Leu Leu
1 5 10 15

Gly Lys Pro Asn Ile Ala Asn Gly Gln Phe Asp Phe Asn Phe Ser Lys
20 25 30

Asp Thr Leu Leu Ser Arg Arg Leu Lys Cys Leu His
35 40

<210> 5000
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5000
Glu Xaa Val Leu Lys Pro Phe Ile Ser Phe Tyr Phe Ala Ile Cys Lys
1 5 10 15

Cys Leu Leu Ser Ser Leu His Glu Val Ala Val Thr Phe Phe Thr Phe
20 25 30

Lys Leu Pro Phe Tyr Phe
35

<210> 5001
<211> 34
<212> PRT
<213> Homo sapiens

<400> 5001
Pro Leu Leu Ser Leu His Val Ser Ile Glu Gly Ser Gly Ile Pro Gly
1 5 10 15

Trp Gln Leu Met Asp Lys Arg His Tyr Ala Lys Ile Gln Phe Trp Ile
20 25 30

Ser Tyr

<210> 5002
<211> 119
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5002

```
Xaa Leu Gly Tyr Thr Xaa Xaa Lys Gly Thr Lys Ala Gly Val Thr Ala
 1               5                  10                  15

Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Trp
            20                  25                  30

His Glu Pro Lys Gly Thr Gln Cys Gly Met Thr Lys Tyr Leu Leu Ser
        35                  40                  45

Glu Ser Thr Ala Phe Thr Tyr Leu Pro Val Phe Lys Ile Phe Val Lys
    50                  55                  60

Ser Tyr Lys Lys Leu Gln Phe Asp Gln Ile Trp Val Tyr Ala Val Cys
65                  70                  75                  80

Tyr Pro Gln Arg His Phe Glu Ser Ser Cys Asp Ala Phe Asn Asn Val
                85                  90                  95

Leu Ser Leu Leu Ile Pro Leu Ser Asn Leu Ile Trp Tyr Ser Gln Asn
            100                 105                 110

Ser Tyr Ser Leu Arg Gly Asn
        115
```

<210> 5003
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5003

```
Val Cys Ile Tyr Phe Phe Ser Lys Glu Thr Ala Tyr Ile Phe His Val
 1               5                  10                  15

Ser Met Phe Leu Arg Pro Trp Val Thr Val Gly Ile Ala Leu Met Gly
```

20 25 30

Ala Xaa Gln Ala Trp Gly Leu Val Leu Ala Leu Asp Leu Glu Gln Gly
35 40 45

Thr Ser Pro Ala Gly Leu Gln Phe Ser Pro Leu Xaa Asn Glu Arg Xaa
50 55 60

Glu Leu Ser Asp Leu Lys Ser Phe Gln
65 70

<210> 5004
<211> 100
<212> PRT
<213> Homo sapiens

<400> 5004
Ile Ala Asn Ser Ser Leu Gly Leu Ala Leu Ser Val Asp Phe Ser Met
1 5 10 15

Leu Arg Arg Lys Pro Thr Arg Leu Glu Leu Lys Leu Asp Asp Ile Glu
20 25 30

Glu Phe Glu Asn Ile Arg Lys Asp Leu Glu Thr Arg Lys Lys Gln Lys
35 40 45

Glu Asp Val Glu Val Val Gly Gly Ser Asp Gly Glu Gly Ala Ile Gly
50 55 60

Leu Ser Ser Asp Pro Lys Ser Arg Glu Gln Met Ile Asn Asp Arg Ile
65 70 75 80

Gly Tyr Lys Pro Gln Pro Lys Pro Asn Asn Arg Ser Ser Gln Phe Gly
85 90 95

Ser Leu Glu Phe
100

<210> 5005
<211> 281
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (251)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (263)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (277)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (278)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5005

```
Val Leu Leu Leu Gln Lys Asp Ser Leu Leu Thr Ala Ala Gln Leu Lys
  1               5                  10                  15

Ala Lys Gly Glu Leu Ser Phe Glu Gln Asp Gln Leu Val Ala Gly Gly
             20                  25                  30

Gln Leu Gly Glu Leu His Asn Gly Thr Gln Tyr Arg Glu Val Arg Gln
         35                  40                  45

Phe Cys Ser Gly Ser Gly His His Leu Val Arg Phe Tyr Phe Leu Thr
     50                  55                  60

Arg Val Tyr Ser Glu Tyr Leu Glu Asp Val Leu Glu Glu Leu Thr Tyr
 65                  70                  75                  80

Gly Pro Ala Pro Asp Leu Val Ile Ile Asn Ser Cys Leu Trp Asp Leu
                 85                  90                  95

Ser Arg Tyr Gly Arg Cys Ser Met Glu Ser Tyr Arg Glu Asn Leu Glu
            100                 105                 110

Arg Val Phe Val Arg Met Asp Gln Val Leu Pro Asp Ser Cys Leu Leu
        115                 120                 125

Val Trp Asn Met Ala Met Pro Leu Gly Glu Arg Ile Thr Gly Gly Phe
    130                 135                 140

Leu Leu Pro Glu Leu Gln Pro Leu Ala Gly Ser Leu Arg Arg Asp Val
145                 150                 155                 160

Val Glu Gly Asn Phe Tyr Ser Ala Thr Leu Ala Gly Asp His Cys Phe
                165                 170                 175

Asp Val Leu Asp Leu His Phe His Phe Arg His Ala Val Gln His Arg
```

```
           180                 185                 190

His Arg Asp Gly Val His Trp Asp Gln His Ala His Arg His Leu Ser
        195                 200                 205

His Leu Leu Leu Thr His Val Ala Asp Ala Trp Gly Val Glu Leu Pro
    210                 215                 220

Lys Arg Gly Tyr Pro Pro Gly Glu Pro Tyr His Lys Trp Gly Gly Ser
225                 230                 235                 240

Asp Ala Leu Gly Pro Ser Glu Asp Arg Ala Xaa Lys Gln Asn Gly Thr
                245                 250                 255

Gln Pro Leu Lys Gly Ser Xaa Gly Pro Leu Lys Asp Ser Cys Gly Phe
            260                 265                 270

Cys Met His Leu Xaa Xaa Pro Leu Arg
        275                 280
```

<210> 5006
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5006

```
Arg Tyr Tyr Leu Ile Ile Ile Lys Ile Arg Gly His Ser Phe Glu Pro
  1               5                  10                  15
```

Ser Leu Thr Phe Gln Phe Lys Leu Gly Pro Xaa Pro Ser Lys Xaa Leu
20 25 30

Gly Phe Arg His Xaa Pro Leu Val Leu Ala Gly Leu Xaa
35 40 45

<210> 5007
<211> 95
<212> PRT
<213> Homo sapiens

<400> 5007
Asn Met Tyr Gly Thr Ser Cys Leu Ile Leu His Val Thr Ser Leu Leu
1 5 10 15

Tyr Ile Asp Glu Val Leu Val Thr Leu Ser Ser Asn Thr Leu Pro Leu
20 25 30

Leu Phe Arg Glu Cys Leu Arg Asp Phe Leu Tyr Trp Phe Tyr Tyr Ser
35 40 45

Asp Tyr Gly Leu Asp Leu Ser Ile Leu Leu Leu Pro Pro Gly Phe Leu
50 55 60

Ile Ile His Pro Ser Lys Leu Ile Phe Cys Glu Ala Phe Val Ser Gln
65 70 75 80

Ile Lys Thr Leu Leu Glu Pro Lys Val Val Ala Asp Gly Tyr Leu
85 90 95

<210> 5008
<211> 82
<212> PRT
<213> Homo sapiens

<400> 5008
Leu Pro Lys Gln Ile Leu Asp Arg His Cys Ile Tyr Trp Tyr Gly Ser
1 5 10 15

Gly Leu Tyr Gly Val Val Cys Thr His Leu Gly Leu Phe Ser Leu Asn
20 25 30

Pro Ala Pro Asn Glu Ser Gly Gly Arg Val His Ser Ile Ser Phe Asn
35 40 45

Val Val Met His His Lys Leu Asn Ile Arg Met Lys Met Lys Leu Asp
50 55 60

Phe Asp Val Ser Leu Lys Pro Phe Pro Cys Pro Ile His Ser Pro Pro
65 70 75 80

Pro Pro

<210> 5009
<211> 83
<212> PRT
<213> Homo sapiens

<400> 5009
Ser Leu Ser Ser Pro Ala Val Lys Met Leu Ile Met Ile Leu Thr Leu
1 5 10 15

Lys Ile Arg Pro His Lys Glu Gln Gly Asn Ser Arg Gly Gly Thr Gln
20 25 30

Leu Gly Glu Ser Arg Pro Gly Gln Gly Lys Glu Thr His Lys Pro Asn
35 40 45

Arg Ala Ala Leu Gly Lys Val Leu Ile Ser Trp Cys Cys Phe Leu Ser
50 55 60

His Met Pro Ile Pro Gln Ala Val Pro Leu Ser Trp Leu Cys Arg Met
65 70 75 80

Ser Ser Ser

<210> 5010
<211> 76
<212> PRT
<213> Homo sapiens

<400> 5010
Tyr Pro Ser Val Thr Ser Gly Thr Phe Arg Arg Lys Pro Asn Ser Ser
1 5 10 15

Val Trp Cys Thr Arg Ser Ser Asp Val Phe Pro Pro Pro Asn Val Leu
20 25 30

Val Lys Gln Thr Tyr Thr Ser Ser Glu Ala Thr Phe Gly Gln Ala Ser
35 40 45

Arg Leu Gly Lys Cys Cys Thr Leu Cys Ile Lys Cys Ala Ser His Pro

```
     50                  55                  60

Ser Pro Leu Gly Lys Phe Leu Cys Ile Leu Gln Ala
 65                  70                  75



<210> 5011
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5011
Pro Ile Ile Pro Met Phe Thr Gln Asn Ile Arg Glu Gly Phe Arg Ser
  1               5                  10                  15

Leu Gly Gly Thr Arg Leu Phe Arg Trp Leu Tyr Glu Lys Phe Arg Tyr
             20                  25                  30

Pro Phe Ala Pro Met Tyr Gly Gly Phe Pro Val Lys Leu Arg Thr Tyr
         35                  40                  45

Leu Gly Asp Pro Ile Pro Tyr Asp Pro Gln Ile Thr Ala Glu Glu Leu
     50                  55                  60

Ala Glu Lys Thr Xaa Asn Ala Val Gln Ala Leu Ile Asp Lys His Gln
 65                  70                  75                  80

Arg Ile Pro Gly Asn Ile Met Ser Ala Leu Leu Glu Arg Phe His
                 85                  90                  95



<210> 5012
<211> 90
<212> PRT
<213> Homo sapiens

<400> 5012
Ala Ala Arg Ala Leu Ser Leu Ser Leu Ser Pro Glu Val Asp Phe Pro
  1               5                  10                  15

Val Pro Pro Gly Arg Gly Arg Ser Val Glu Ser Val Gln Ser Gln Pro
             20                  25                  30

Gln Glu Pro Val Ser Val Pro Gln Thr Leu Thr Ser Thr Leu Glu His
```

```
        35                  40                  45

Ile Val Gly Gln Leu Asp Val Leu Thr Gln Thr Val Ser Ile Leu Glu
     50                  55                  60

Gln Arg Leu Thr Leu Thr Glu Asp Lys Leu Lys Gln Cys Leu Glu Asn
 65                  70                  75                  80

Gln Gln Leu Ile Met Gln Arg Ala Thr Pro
                 85                  90
```

<210> 5013
<211> 178
<212> PRT
<213> Homo sapiens

<400> 5013

```
His Glu Leu Arg Arg Arg Met Leu Glu Ala Ala Asp Phe Ala Ala Arg
  1               5                  10                  15

Lys His Arg Gln Gln Arg Arg Lys Asp Pro Glu Gly Thr Pro Tyr Ile
             20                  25                  30

Asn His Pro Ile Gly Val Ala Arg Ile Leu Thr His Glu Ala Gly Ile
         35                  40                  45

Thr Asp Ile Val Val Leu Gln Ala Ala Leu Leu His Asp Thr Val Glu
     50                  55                  60

Asp Thr Asp Thr Thr Leu Asp Glu Val Glu Leu His Phe Gly Ala Gln
 65                  70                  75                  80

Val Arg Arg Leu Val Glu Glu Val Thr Asp Asp Lys Thr Leu Pro Lys
                 85                  90                  95

Leu Glu Arg Lys Arg Leu Gln Val Glu Gln Ala Pro His Ser Ser Pro
            100                 105                 110

Gly Ala Lys Leu Val Lys Leu Ala Asp Lys Leu Tyr Asn Leu Arg Asp
        115                 120                 125

Leu Asn Arg Cys Thr Pro Glu Gly Trp Ser Glu His Arg Val Gln Glu
    130                 135                 140

Tyr Phe Glu Trp Ala Ala Gln Val Val Lys Gly Leu Gln Gly Thr Asn
145                 150                 155                 160

Arg Gln Leu Glu Glu Ala Leu Lys His Leu Phe Lys Gln Arg Gly Leu
                165                 170                 175
```

Thr Ile

<210> 5014
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5014
Thr Ile Phe Ala Val Met Xaa Ser Phe Asn Val Ser Phe Gln Xaa Gly
1 5 10 15

Pro Ile Lys Val Phe Leu Tyr Leu Val Asn Lys Asp His Ser Cys Gly
20 25 30

Leu Val Arg Gly Cys Ile His Arg Leu Trp Glu Ala Val Val Cys Val
35 40 45

Cys Val Ser Ile Ser Ile Phe Tyr Val Tyr Asn Ser Ala Tyr
50 55 60

<210> 5015
<211> 90
<212> PRT
<213> Homo sapiens

<400> 5015
Ser Thr Ala Leu Gly Ala Gly Gly Ala Phe Ser Val Pro Leu Leu Ser
1 5 10 15

Leu Leu Ser Ala Ser Leu Val Leu Pro Ala His Phe His Asn Val Leu
20 25 30

Leu Gly Cys Ile Gly Ile Val Cys Cys Leu Asp Pro Trp Pro Arg Leu
35 40 45

Ser Leu Pro Val Arg Glu Thr Lys Leu Thr Thr Lys Gly Phe Cys Gln
50 55 60

Ile Ala Phe Ile Tyr Arg Ile Cys Pro Phe Met Cys Leu Cys Val Tyr
65 70 75 80

Gly Leu Asn Gly Phe Leu Thr Ser Lys Lys
85 90

<210> 5016
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5016
Val Tyr Arg Val Leu Lys Pro Leu Lys Xaa Asn Ala Asn Xaa Ala Lys
1 5 10 15

Ser Leu Leu Leu Thr Thr Ile Pro Gln Ile Gly Ser Thr Glu Trp Ser
20 25 30

Glu Thr Leu Xaa Asn Leu Lys Asn Met Ala Gln Phe Ser Val Leu Leu
35 40 45

Pro Arg His
50

<210> 5017
<211> 333
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5017
Gly Arg Arg Ala Gln Arg Ser Thr Pro Arg Ser Leu Ala Arg Val Ser
1 5 10 15

Gln Arg Gly Pro Thr Arg Tyr Ala Asp Ala Pro Thr Pro Ile Arg Pro
20 25 30

Ser Gln Asp Ser Thr Met Thr Leu Asn Asn Val Thr Met Arg Gln Gly
35 40 45

Thr Val Gly Met Gln Pro Gln Gln Gln Arg Trp Ser Ile Pro Ala Asp
50 55 60

Gly Arg His Leu Met Val Gln Lys Glu Pro His Gln Tyr Ser His Arg
65 70 75 80

Asn Arg His Ser Ala Thr Pro Glu Asp His Cys Arg Arg Ser Trp Ser
85 90 95

Ser Asp Ser Thr Asp Ser Val Ile Ser Ser Glu Ser Gly Asn Thr Tyr
100 105 110

Tyr Arg Val Val Leu Ile Gly Glu Gln Gly Val Gly Lys Ser Thr Leu
115 120 125

Ala Asn Ile Phe Ala Gly Val His Asp Ser Met Asp Ser Asp Cys Xaa
130 135 140

Val Leu Gly Glu Asp Thr Tyr Glu Arg Thr Leu Met Val Asp Gly Glu
145 150 155 160

Ser Ala Thr Ile Ile Leu Leu Asp Met Trp Glu Asn Lys Gly Glu Asn
165 170 175

Glu Trp Leu His Asp His Cys Met Gln Val Gly Asp Ala Tyr Leu Ile
180 185 190

Val Tyr Ser Ile Thr Asp Arg Ala Ser Phe Glu Lys Ala Ser Glu Leu
195 200 205

Arg Ile Gln Leu Arg Arg Ala Arg Gln Thr Glu Asp Ile Pro Ile Ile
210 215 220

Leu Val Gly Asn Lys Ser Asp Leu Val Arg Cys Arg Glu Val Ser Val
225 230 235 240

```
Ser Glu Gly Arg Ala Cys Ala Val Val Phe Asp Cys Lys Phe Ile Glu
                245                 250                 255

Thr Ser Ala Ala Val Gln His Asn Val Lys Glu Leu Phe Glu Gly Ile
            260                 265                 270

Val Arg Gln Val Arg Leu Arg Arg Asp Ser Lys Glu Lys Asn Glu Arg
        275                 280                 285

Arg Leu Ala Tyr Gln Lys Arg Lys Glu Ser Met Pro Arg Lys Ala Arg
    290                 295                 300

Arg Phe Trp Gly Lys Ile Val Ala Lys Asn Asn Lys Asn Met Ala Phe
305                 310                 315                 320

Lys Leu Lys Ser Lys Ser Cys His Asp Leu Ser Val Leu
                325                 330
```

<210> 5018
<211> 101
<212> PRT
<213> Homo sapiens

<400> 5018

```
Glu Pro Leu Trp Glu Asn Leu Phe Leu Pro Pro Leu Gly Lys Gln Lys
  1               5                  10                  15

Asn Phe Ser Val Phe Gly Glu Tyr Phe Arg Asn Ser Asn Glu Arg His
             20                  25                  30

Cys Phe Ser Cys Trp Leu Thr Gly Leu Lys Gly Ala Phe Val Leu Leu
         35                  40                  45

Gly Gln Gly Glu Arg Gly Asp Pro Arg Lys Val Ser Leu Pro Glu Asp
     50                  55                  60

Gly Gln Pro Pro Gly Leu Gln Leu Gln Val His Ile Thr Arg Thr Ala
 65                  70                  75                  80

Trp Gln Pro Gly Pro Pro Gly Ala His Ser Arg Gln Pro Leu Pro Arg
                85                  90                  95

Gly Leu Ile Leu Gln
            100
```

<210> 5019
<211> 52

<212> PRT
<213> Homo sapiens

<400> 5019
Arg Tyr Leu Ile Ser Leu Ser Cys Asn Leu Tyr Leu Gln Thr Gly Val
1 5 10 15

Ser Asn Pro Ile Asn Leu Ile Ala Asp Ile Val Arg Lys Asn Glu Met
20 25 30

Thr Ser Val Lys Thr Gln Asn Tyr Thr Tyr Lys Val Ser Arg Gln Asn
35 40 45

Met Leu Leu Leu
50

<210> 5020
<211> 51
<212> PRT
<213> Homo sapiens

<400> 5020
Pro Val Asp Ser Cys Ala Val Ser Pro Gly Val Ala Lys Glu Ala Ala
1 5 10 15

Ser Gly Ser Trp Gly Leu Val Ala Arg Ser Gln Gln Glu Cys Leu Leu
20 25 30

Tyr Phe Val Arg Asp Ala Glu Gln Ile Ser Asn Ser Val Ala Val Met
35 40 45

Leu Ala Ser
50

<210> 5021
<211> 79
<212> PRT
<213> Homo sapiens

<400> 5021
Thr Ser Ser Thr Ile Asn Cys Ser Leu Gly Thr Phe Tyr Ala Gln Asn
1 5 10 15

Cys Ala Pro Ser Ser Glu Gln Gln Val Phe Asn Gly Pro Cys Asp Glu
20 25 30

Lys Gly Pro Ile Lys Ala Ala Gly Met Gly His Ser Pro Thr Pro His

35 40 45

Gly Pro Gly His Cys His Ser Cys Cys Pro Ala Ser Pro Gly Leu Trp
50 55 60

Leu His Gly Arg Ser His Phe Cys Lys Lys Phe Thr Phe Leu Lys
65 70 75

<210> 5022
<211> 79
<212> PRT
<213> Homo sapiens

<400> 5022
Asn Leu Lys Pro Pro Leu Glu Pro Pro Phe Cys Arg Val Phe Gly Lys
1 5 10 15

Arg Lys Lys Gly Leu Cys Leu Arg Leu Trp Gly Arg Gly Asp Tyr Val
20 25 30

Thr Ser Val Gln Thr Ala Gly Asn Leu Lys Thr Val Leu Ser Leu Phe
35 40 45

Leu Tyr Ile Val Phe Ile Tyr Lys Lys Lys Arg Leu Arg Met His Ala
50 55 60

Lys Leu Leu Phe Ser Val Ser His Arg Pro Arg Trp Asn Val Lys
65 70 75

<210> 5023
<211> 141
<212> PRT
<213> Homo sapiens

<400> 5023
Leu Leu Gln Val Asp Phe His Asn Met Gln Ser Gly Gly Gly Val Lys
1 5 10 15

Thr Asp Asp Thr Ser Thr Leu Asn Ser Leu Cys Gly Tyr Ala Trp Val
20 25 30

Tyr Val Trp Glu Glu Lys Gln Arg Cys Arg Leu Ser Ser Phe Phe Ser
35 40 45

Ser Ser Ala Ser Ile Pro Gly Leu Leu Pro Ser His Thr Leu Asp Leu
50 55 60

```
Val Gln Asn Val Gly Val Val Leu Asp Glu Ala Leu Gly Trp Gly Arg
 65                  70                  75                  80

Glu Arg Glu Leu Cys Val Lys Cys Leu Leu Glu Met His Cys Gly Val
                 85                  90                  95

Phe Ser Cys Met Gly Asn His Leu Cys Gln Ala Phe Pro His Phe Pro
            100                 105                 110

Tyr Leu Ser His Leu Val Ser Cys Leu Cys Phe Gln Leu Cys Val Ile
        115                 120                 125

Leu Phe Ala Ser Cys Thr Lys Leu Ile Phe Ser Lys Val
    130                 135                 140
```

<210> 5024
<211> 30
<212> PRT
<213> Homo sapiens

<400> 5024

```
Gly Thr Arg Val Ser Asp Leu Ala Thr Ile Ser Leu Gly Ser Cys Gln
  1               5                  10                  15

Asn Leu Ile Phe Ser Leu Lys Thr Pro Ile Cys Ser His Ser
             20                  25                  30
```

<210> 5025
<211> 241
<212> PRT
<213> Homo sapiens

<400> 5025

```
Ile Phe Gly Met Ser Lys Leu Arg Met Val Leu Leu Glu Asp Ser Gly
  1               5                  10                  15

Ser Ala Asp Phe Arg Arg His Phe Val Asn Leu Ser Pro Phe Thr Ile
             20                  25                  30

Thr Val Val Leu Leu Leu Ser Ala Cys Phe Val Thr Ser Ser Leu Gly
         35                  40                  45

Gly Thr Asp Lys Glu Leu Arg Leu Val Asp Gly Glu Asn Lys Cys Ser
     50                  55                  60

Gly Arg Val Glu Val Lys Val Gln Glu Glu Trp Gly Thr Val Cys Asn
 65                  70                  75                  80
```

```
Asn Gly Trp Ser Met Glu Ala Val Ser Val Ile Cys Asn Gln Leu Gly
                 85                  90                  95

Cys Pro Thr Ala Ile Lys Ala Pro Gly Trp Ala Asn Ser Ser Ala Gly
            100                 105                 110

Ser Gly Arg Ile Trp Met Asp His Val Ser Cys Arg Gly Asn Glu Ser
        115                 120                 125

Ala Leu Trp Asp Cys Lys His Asp Gly Trp Gly Lys His Ser Asn Cys
    130                 135                 140

Thr His Cys Glu Pro Arg Asn Ala Thr Pro Trp Lys Pro His Thr Leu
145                 150                 155                 160

Leu Ser Pro Ser Val Leu Ile Pro Val Leu Leu Thr Val Ser Pro Ser
                165                 170                 175

Trp Leu Phe Leu Glu Ser Leu Ser Phe Pro His Phe His Phe Leu Pro
            180                 185                 190

Leu Tyr Cys His Leu Trp Pro Gly Phe Ala Leu Leu Val Gln His Pro
        195                 200                 205

Gln Leu Gln His Leu Cys Leu Ser Ala Pro Ser Thr Arg Gln Lys Leu
    210                 215                 220

Thr Leu Glu Asn Ile Arg His Ser Glu Ser Arg Val Leu Gly Ser Asp
225                 230                 235                 240

Gly
```

<210> 5026
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5026
Ile Arg Gln Cys Val Lys His Trp His Thr Asn Ala Ala Lys Gly Ala
1 5 10 15

Glu Gly Arg Gln Trp Gly Gly Ala Gly Thr Gln Gln Gly Ala Leu Pro
20 25 30

Arg Asp Thr Leu Val Ile Phe Ser Thr Glu Xaa His Pro Xaa Ala Phe
35 40 45

Leu Gln His Leu
50

<210> 5027
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5027
Gly Gly Ser Glu Asp Gln Leu Glu Asp Pro Ala Leu Ser Gly Lys Ala
1 5 10 15

Trp Glu Cys Glu Met Gly Arg Arg Gly Trp Asp Leu Gly Gly Trp Gly
20 25 30

Gln Ala Leu Ser Pro Ser Leu Leu Ala Phe Gln Ser Leu Gly Arg Asn
35 40 45

Leu Ser Xaa Leu Pro Pro Leu Ser Leu Ala His Arg His Pro Ala Cys
50 55 60

Ile Ser Gln Glu Glu Val Glu Gly Thr Ser Leu Phe Pro Arg Asn Pro
65 70 75 80

Leu Tyr Pro His Pro Val Leu Cys Ser Ser Pro Arg Leu Leu Gly Leu
85 90 95

Arg Leu Leu Thr Ser Arg Arg Leu Arg Leu Val Cys Val Cys Leu Phe
100 105 110

Ala His Leu Trp Leu Ile Pro Arg Glu Pro Gly His Leu Leu Pro Asp
115 120 125

Ala His Pro Cys Gln Ser Phe Leu His Ser Pro Ser Gly Arg Trp Asp

130 135 140

Val Arg Gln Pro Thr Leu Glu Asn Pro Glu Asn Arg Glu Gln Gly Phe
145 150 155 160

Ala Leu His Asn Ser Thr Pro Gln Ile Leu Ser Pro Gly His Arg Arg
165 170 175

Pro Thr Gly Gln Asp Pro Lys Ile Trp Gly Lys Glu Val Leu Arg Thr
180 185 190

Leu Arg Tyr Pro
195

<210> 5028
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5028
Met Phe Leu Asp Gly Gly Leu Pro Ser Ser Lys Leu Leu Pro Ile Cys
1 5 10 15

Thr Ser Val Leu Gly Gln Gly Lys Xaa Lys Ala Arg Ser Cys Lys Ser
20 25 30

His Ser Ser Gly Ser Gln Phe His Pro Gln Phe Lys Glu Leu Ser Arg
35 40 45

Gln Arg Gln Arg Leu Tyr Ser Thr His Val Gln Leu Lys Ala Gly Glu
50 55 60

Ala Lys Pro Gly Gln Arg Lys Gly Lys Gly Cys Val
65 70 75

<210> 5029
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5029
Pro Glu Ile Ala Pro Asn Gly Gln Ser Leu Val Lys Gln Leu His Glu
1 5 10 15

Arg Gln Leu Asp Leu Pro Tyr Leu Pro Leu Lys Arg Pro Lys Trp Thr
20 25 30

Asn Xaa Ser Ser Gln Leu Leu Gly Tyr Phe Thr Leu Ala Leu Tyr Thr
35 40 45

Ser Ala Pro Ser Lys Leu Lys Gly Asp Leu Asn Tyr Leu Arg Leu Glu
50 55 60

Trp Gly Pro Asp Phe Gln Gln His Glu Ala Gly Leu Ile Gly Ala Asp
65 70 75 80

Glu Val Pro Ile Leu Thr Xaa Ser Ser Ala Glu Leu Ala Gln Gln Gln
85 90 95

Ile Ala Met Leu Asn Gly Cys Thr Trp Leu Pro Val Ser Trp Ala Arg
100 105 110

Lys Lys Gly Gly Leu His Thr Val Val Asp Ser Thr Thr Leu Ser Arg
115 120 125

Pro Leu
130

<210> 5030
<211> 132
<212> PRT
<213> Homo sapiens

<400> 5030
Leu Val His Pro Pro Arg Asn Phe Leu Asp Ala Val Arg Ala Arg Trp
1 5 10 15

Cys Tyr Leu Glu Leu Lys Lys Leu His Ala Ser Val Lys Leu Leu Thr
20 25 30

Met Ala Lys Asn Lys Leu Arg Gly Pro Lys Ser Arg Asn Val Phe His

```
        35                  40                  45

Ile Ala Ser Gln Lys Asn Phe Lys Ala Lys Asn Lys Ala Lys Pro Val
     50                  55                  60

Thr Thr Asn Leu Lys Lys Ile Asn Ile Met Asn Glu Glu Lys Val Asn
 65                  70                  75                  80

Arg Val Asn Lys Ala Phe Val Asn Val Gln Lys Glu Leu Ala His Phe
                85                  90                  95

Ala Lys Ser Ile Ser Leu Glu Pro Leu Gln Lys Glu Leu Ile Pro Gln
            100                 105                 110

Gln Arg His Glu Ser Lys Pro Val Asn Val Asp Glu Ala Thr Arg Leu
        115                 120                 125

Met Ala Leu Leu
    130
```

<210> 5031
<211> 68
<212> PRT
<213> Homo sapiens

<400> 5031

```
Arg Glu Cys Val Cys Thr Phe Ser Leu Tyr Lys Gly Gln Gly Val Gly
  1               5                  10                  15

Gln Ile His His Arg Leu Ile Tyr Ile Phe Cys Cys Asp Phe Phe Gln
             20                  25                  30

Leu Tyr Asn Lys Cys Gln Leu Ile Val His Gly Thr Ile Tyr Phe Ser
        35                  40                  45

Thr Gln Phe Ile Val Leu Ser Arg Glu Arg Phe Ile Tyr Phe His Tyr
     50                  55                  60

Leu Ala Leu Ser
 65
```

<210> 5032
<211> 142
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5032
Pro Thr Arg Pro Ala Ser Xaa Gly Cys Gly Leu Pro Leu Ser Leu Leu
1 5 10 15

Arg Ala Val Thr Pro Val Pro Ala Ala Ile Arg Pro Gly Ala Pro Asp
20 25 30

Glu Ser Met Arg Gly Arg Ala Arg Gly Val Val Phe Pro Arg Thr Pro
35 40 45

Gly Gly Leu Pro Arg Pro Val Leu Cys Thr Ser Ser Pro Thr Lys Gly
50 55 60

Glu Thr Glu Ala Pro Arg Gly Val Gly Arg Ala Gly Trp Thr Ser Gly
65 70 75 80

Pro Ala Ala Gly Ala Val Val Arg Pro Leu Cys Arg Gly Gly Pro Leu
85 90 95

Gly Phe Arg Val Ser Ser Gly Lys Arg Leu Ala Gly Leu Val Gly Cys
100 105 110

Ala Ala Ile Leu Glu Thr Asp Asp Ser Ser Pro Xaa Asp Gly Phe Ala
115 120 125

Gly Ser Ala Pro Ala Ser Ala Pro Ile Phe Pro Ala Ala Pro
130 135 140

<210> 5033
<211> 255
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (242)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (248)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (249)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5033

```
Arg Val Met Ser Ala Val Leu Leu Leu Ala Leu Leu Gly Phe Ile Leu
  1               5                  10                  15

Pro Leu Pro Gly Val Gln Ala Leu Leu Cys Gln Phe Gly Thr Val Gln
             20                  25                  30

His Val Trp Lys Val Ser Asp Leu Pro Arg Gln Trp Thr Pro Lys Asn
         35                  40                  45

Thr Ser Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met Leu Ile
     50                  55                  60

Glu Ser Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly Cys Thr Glu
 65                  70                  75                  80

Ala Lys Asp Gln Glu Pro Arg Val Thr Glu His Arg Met Gly Pro Gly
                 85                  90                  95

Leu Ser Leu Ile Ser Tyr Thr Phe Val Cys Arg Gln Glu Asp Phe Cys
            100                 105                 110

Asn Asn Leu Val Asn Ser Leu Pro Leu Trp Ala Pro Gln Pro Pro Ala
        115                 120                 125

Asp Pro Gly Ser Leu Arg Cys Pro Val Cys Leu Ser Met Glu Gly Cys
    130                 135                 140

Leu Glu Gly Thr Thr Glu Glu Ile Cys Pro Lys Gly Thr Thr His Cys
145                 150                 155                 160

Tyr Asp Gly Leu Leu Arg Leu Arg Gly Gly Gly Ile Phe Ser Asn Leu
                165                 170                 175

Arg Val Gln Gly Cys Met Pro Gln Pro Gly Cys Asn Leu Leu Asn Gly
            180                 185                 190

Thr Gln Glu Ile Gly Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys
        195                 200                 205

Asp Phe Leu Thr Cys His Arg Gly Thr Thr Ile Met Thr His Gly Asn
    210                 215                 220
```

Leu Ala Gln Glu Pro Thr Asp Trp Thr Thr Ser Asn Tyr Arg Asp Val
225 230 235 240

Arg Xaa Gly Ala Gly Val Ser Xaa Xaa Ala Ala Ala Pro Arg Cys
245 250 255

<210> 5034
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5034
His Glu Gly Arg Arg Lys Lys Trp Met Leu Glu Ser Cys Xaa Met Ser
1 5 10 15

Leu Trp Ile Ala Gln Lys Tyr Gln Leu Trp Leu Xaa Pro His Leu Ala
20 25 30

Phe Val Ser Met Lys Lys Pro Gly Thr Ile Ser Thr Thr Ile Ser Asp
35 40 45

His His Gln Pro Gln Ile Leu Gly Asn Leu Leu Glu Phe Phe Leu Asn
50 55 60

Val Leu Asn Ser Cys Trp Val Pro Gly Arg Phe Gln Arg Lys
65 70 75

<210> 5035
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5035
Phe Gly Ala Ser Ser Leu Ser Ser Cys Arg Pro Ile Thr Ile Val Pro
1 5 10 15

Xaa Gly Lys Lys Trp Ser Pro Ala Pro Ser Pro Val Ala Leu Xaa Xaa
20 25 30

Thr Gly Asn Pro Phe Gly
35

<210> 5036
<211> 43
<212> PRT
<213> Homo sapiens

<400> 5036
Ser Arg Pro Phe Glu Glu Ile Tyr Glu Trp Asp Ile Lys Gln Phe Ser
1 5 10 15

Val Leu Gln Val Phe Phe Phe Phe Ser Lys Leu Phe Ala Val Ser Asn
20 25 30

Cys Asn Gln Tyr Leu Leu Leu Ser Ile Cys Leu
35 40

<210> 5037
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5037
Ala Gly Phe Ser Val Ile Ala Thr Phe Ala Tyr Phe Phe Pro Tyr Phe

```
  1               5                  10                  15

Pro Cys Leu Leu Met Leu Asn Ser Met Asn Leu Leu Ser Asp Ala Val
            20                  25                  30

Leu Asp Cys Pro Cys Cys Ile Ser Ile Ile Ser Leu Phe Ser Phe Ser
        35                  40                  45

Leu Tyr Tyr Tyr Asn Cys Ser Phe Tyr Met Lys Ala Arg Lys Leu Xaa
    50                  55                  60

Leu Glu Glu His Leu Ser Ala Thr Cys Gln Phe Cys Val Ser Val Leu
65                  70                  75                  80

Tyr Val Cys Val Asn Phe Pro Leu Lys
                85
```

<210> 5038
<211> 176
<212> PRT
<213> Homo sapiens

<400> 5038

```
Gly Pro Arg Gln Gly Asp His Leu Arg Ser Gly Val Ser Thr Lys Asn
  1               5                  10                  15

Thr Lys Ile Arg Gln Val Trp Trp Trp Ala Pro Leu Arg Arg Leu Arg
            20                  25                  30

Gln Glu Asn His Leu Asn Pro Gly Gly Arg Gly Cys Ser Glu Pro Asp
        35                  40                  45

His Ala Ala Ala Leu Gln Pro Gly Arg Ser Pro Cys Val Leu Leu Gly
    50                  55                  60

Ala Gly Ala Val Thr Tyr Pro Leu Ser Phe Ser Leu Ala Ile Ser Val
65                  70                  75                  80

Val Ser Tyr Glu Ala Glu Ile Gly Lys Gly Tyr Met Gln Val Ser Gln
                85                  90                  95

Trp Thr Trp Pro Met Leu Gln Ala Pro Ser Ser Gln Val Gln Gln Cys
            100                 105                 110

Tyr His Leu Leu Leu Leu Gly Gly Gln Thr Arg His Pro His His Glu
        115                 120                 125

Gly Ala Ala Gly Thr Met Asn Tyr Val Asn Asn Pro Ser Leu Tyr Tyr
    130                 135                 140
```

```
Arg Lys Gly Cys Ser His Met Arg Ile Gln Ser Thr Gln Ala Pro Trp
145                 150                 155                 160

Pro Cys Ser Pro Leu Gln Pro Gln Gly Ser Gly Ser Pro Ile Trp Arg
                165                 170                 175
```

<210> 5039
<211> 274
<212> PRT
<213> Homo sapiens

<400> 5039

```
Arg Gly Cys Gly Ser Cys Gly Tyr Lys Pro Ser Ala Gly Pro Ala Trp
  1               5                  10                  15

Arg Pro Arg Pro Pro Pro Ala Val Ser Pro Leu Arg His Pro Glu Pro
             20                  25                  30

Ala Lys Val Leu Ser Phe Ser Ser Cys Pro Leu Pro Ala Leu Gly Arg
         35                  40                  45

Thr Gly Pro Ser Arg Ala Ala Arg Ala Gln Ser Leu Thr Met Ala Ser
     50                  55                  60

Leu Phe Lys Lys Lys Thr Val Asp Asp Val Ile Lys Glu Gln Asn Arg
 65                  70                  75                  80

Glu Leu Arg Gly Thr Gln Arg Ala Ile Ile Arg Asp Arg Ala Ala Leu
                 85                  90                  95

Glu Lys Gln Glu Lys Gln Leu Glu Leu Glu Ile Lys Lys Met Ala Lys
            100                 105                 110

Ile Gly Asn Lys Glu Ala Cys Lys Val Leu Ala Lys Gln Leu Val His
        115                 120                 125

Leu Arg Lys Gln Lys Thr Arg Thr Phe Ala Val Ser Ser Lys Val Thr
    130                 135                 140

Ser Met Ser Thr Gln Thr Lys Val Met Asn Ser Gln Met Lys Met Ala
145                 150                 155                 160

Gly Ala Met Ser Thr Thr Ala Lys Thr Met Gln Ala Val Asn Lys Lys
                165                 170                 175
```

Met Asp Pro Gln Lys Thr Leu Gln Thr Met Gln Asn Phe Gln Lys Glu
180 185 190

Asn Met Lys Met Glu Met Thr Glu Glu Met Ile Asn Asp Thr Leu Asp
195 200 205

Asp Ile Phe Asp Gly Ser Asp Asp Glu Glu Glu Ser Gln Asp Ile Val
210 215 220

Asn Gln Val Leu Asp Glu Ile Gly Ile Glu Ile Ser Gly Lys Met Ala
225 230 235 240

Lys Ala Pro Ser Ala Ala Arg Ser Leu Pro Ser Ala Ser Thr Ser Lys
245 250 255

Ala Thr Ile Ser Asp Glu Glu Ile Glu Arg Gln Leu Lys Ala Leu Gly
260 265 270

Val Asp

<210> 5040
<211> 23
<212> PRT
<213> Homo sapiens

<400> 5040
Thr Leu Lys Ile Glu Val Pro His Asp Pro Ala Ile Pro Leu Leu Asp
1 5 10 15

Ile Tyr Pro Arg Asn Lys Lys
20

<210> 5041
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5041
Ala Arg Phe Ile Lys Leu Ile Phe Phe Ile Leu Val Val Lys Ser Ser
1 5 10 15

Leu Ile Ala Phe Cys Gln Leu Asp Phe Xaa Val Cys Val Ile Phe Lys
20 25 30

Gly Arg Met Thr Gly Gln Ile Ser Asn Lys Lys Cys Ile Glu Leu Glu
35 40 45

Asn Ile Val Val Pro Ser Tyr Pro Trp Asp Ile Arg Ser Lys Thr Pro
50 55 60

Ser Glu Arg Leu Lys Pro Trp Ile Val
65 70

<210> 5042
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5042
Ala Asp Val Glu Ser Pro Glu Leu Ile Ser Asn Phe Leu Pro Phe Pro
1 5 10 15

Phe Pro Ser Pro Ser Leu Pro Phe Pro Phe Ser Pro Leu Pro Ser Pro
20 25 30

Xaa Phe Pro Ser Pro
35

<210> 5043
<211> 87
<212> PRT
<213> Homo sapiens

<400> 5043
Glu Gly Arg Leu Arg Gln Gly Arg Val Arg Glu His Cys Arg Gly Glu
1 5 10 15

Glu Gly Ile His Phe Leu Val Ile Ser Phe His Ser Lys Arg Val Ser
20 25 30

Gln Asn Arg Trp Pro Gly Thr Gly Glu Leu Gly Arg Ala Arg Arg Glu
35 40 45

```
Ile Ser Ala Cys Val Arg Lys Asp Gly Arg Ala Gly Leu Glu Pro Leu
     50                  55                  60

Leu Asp Tyr Leu Gln Ser Phe Cys Ser Thr Leu Lys Val Asn Gln Cys
 65                  70                  75                  80

Leu Gln Thr Phe Pro Asp Thr
                 85
```

<210> 5044
<211> 124
<212> PRT
<213> Homo sapiens

<400> 5044

```
Ile Asn Thr Ile Ile Phe Ile Trp Lys Phe Tyr Arg Arg Ala Ile Ser
  1               5                  10                  15

Val Tyr Val Ile Thr Pro Asp Phe Leu Lys Leu Leu Leu Val Asp Asn
             20                  25                  30

Arg Gln Val Leu Ser Ser Val Pro Leu Arg Val Val Pro Gly Leu Pro
         35                  40                  45

Ala Val Glu Leu Thr Gly Gly Ile Leu Gln Phe Cys Asp Pro Arg Met
     50                  55                  60

Arg Pro Arg Arg Ser Val Arg Ser Ala Gly Gly Gly Ala Trp Glu Ala
 65                  70                  75                  80

Val Phe Val Met Asn Ser Gly Val Phe Cys Pro Leu Lys Cys Ile Phe
                 85                  90                  95

Val His Pro Ile Arg Leu Lys Glu Arg Lys Ser Ile Ser Asn Glu Cys
            100                 105                 110

Lys Leu Phe Leu Arg Lys Lys Cys Ile Arg Leu Leu
        115                 120
```

<210> 5045
<211> 139
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5045
Asp Gln Gly Gly Glu Trp Lys His Gly Arg Ile Ile Leu Pro Ser Tyr
1 5 10 15

Asp Met Glu Tyr Gln Ile Val Phe Glu Gly Val Ile Gly Lys Gly Arg
20 25 30

Ser Gly Glu Ile Ala Ile Asp Asp Ile Arg Ile Ser Thr Asp Val Pro
35 40 45

Leu Glu Asn Cys Met Glu Pro Ile Ser Ala Phe Ala Gly Gly Thr Leu
50 55 60

Leu Pro Gly Thr Glu Pro Thr Val Asp Thr Val Pro Met Gln Pro Ile
65 70 75 80

Pro Ala Tyr Trp Tyr Tyr Val Met Ala Ala Gly Gly Ala Val Leu Val
85 90 95

Leu Val Ser Val Ala Leu Ala Leu Val Leu His Tyr His Arg Phe Arg
100 105 110

Tyr Ala Ala Lys Lys Thr Asp His Xaa Ile Thr Tyr Lys Thr Phe His
115 120 125

Tyr Thr Asn Gly Ala Pro Leu Ala Val Glu Xaa
130 135

<210> 5046
<211> 201
<212> PRT
<213> Homo sapiens

<400> 5046
Ala Leu Ile Met Ser Phe Ile Phe Glu Trp Ile Tyr Asn Gly Phe Ser
1 5 10 15

Ser Val Leu Gln Phe Leu Gly Leu Tyr Lys Lys Ser Gly Lys Leu Val
20 25 30

Phe Leu Gly Leu Asp Asn Ala Gly Lys Thr Thr Leu Leu His Met Leu
35 40 45

```
Lys Asp Asp Arg Leu Gly Gln His Val Pro Thr Leu His Pro Thr Ser
     50                  55                  60

Glu Glu Leu Thr Ile Ala Gly Met Thr Phe Thr Thr Phe Asp Leu Gly
 65                  70                  75                  80

Gly His Glu Gln Ala Arg Arg Val Trp Lys Asn Tyr Leu Pro Ala Ile
                 85                  90                  95

Asn Gly Ile Val Phe Leu Val Asp Cys Ala Asp His Ser Arg Leu Val
            100                 105                 110

Glu Ser Lys Val Glu Leu Asn Ala Leu Met Thr Asp Glu Thr Ile Ser
        115                 120                 125

Asn Val Pro Ile Leu Ile Leu Gly Asn Lys Ile Asp Arg Thr Asp Ala
    130                 135                 140

Ile Ser Glu Glu Lys Leu Arg Glu Ile Phe Gly Leu Tyr Gly Gln Thr
145                 150                 155                 160

Thr Gly Lys Gly Asn Val Thr Leu Lys Glu Leu Asn Ala Arg Pro Met
                165                 170                 175

Glu Val Phe Met Cys Ser Val Leu Lys Arg Gln Gly Tyr Gly Glu Gly
            180                 185                 190

Phe Arg Trp Leu Ser Gln Tyr Ile Asp
        195                 200
```

<210> 5047
<211> 304
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (206)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5047

```
Lys Glu Gly Ile Leu Phe Val Thr Tyr Pro Asp Gly Arg Pro Thr Gly
  1               5                  10                  15

Asp Ala Phe Val Leu Phe Ala Cys Glu Glu Tyr Ala Gln Asn Ala Leu
             20                  25                  30

Arg Lys His Lys Asp Leu Leu Gly Lys Arg Tyr Ile Glu Leu Phe Arg
```

```
        35                  40                  45

Ser Thr Ala Ala Glu Val Gln Gln Val Leu Asn Arg Phe Ser Ser Ala
     50                  55                  60

Pro Leu Ile Pro Leu Pro Thr Pro Pro Ile Ile Pro Val Leu Pro Gln
 65                  70                  75                  80

Gln Phe Val Pro Pro Thr Asn Val Arg Asp Cys Ile Arg Leu Arg Gly
                 85                  90                  95

Leu Pro Tyr Ala Ala Thr Ile Glu Asp Ile Leu Asp Phe Leu Gly Glu
            100                 105                 110

Phe Ala Thr Asp Ile Arg Thr His Gly Val His Met Val Leu Asn His
        115                 120                 125

Gln Gly Arg Pro Ser Gly Asp Ala Phe Ile Gln Met Lys Ser Ala Asp
    130                 135                 140

Arg Ala Phe Met Ala Ala Gln Lys Cys His Lys Lys Asn Met Lys Asp
145                 150                 155                 160

Arg Tyr Val Glu Val Phe Gln Cys Ser Ala Glu Glu Met Asn Phe Val
                165                 170                 175

Leu Met Gly Gly Thr Leu Asn Arg Asn Gly Leu Ser Pro Pro Pro Cys
            180                 185                 190

Leu Ser Pro Pro Ser Tyr Thr Phe Pro Ala Pro Ala Ala Xaa Ile Pro
        195                 200                 205

Thr Glu Ala Ala Ile Tyr Gln Pro Ser Val Ile Leu Asn Pro Arg Ala
    210                 215                 220

Leu Gln Pro Ser Thr Ala Tyr Tyr Pro Ala Gly Thr Gln Leu Phe Met
225                 230                 235                 240

Asn Tyr Thr Ala Tyr Tyr Pro Ser Pro Pro Gly Ser Pro Asn Ser Leu
                245                 250                 255

Gly Tyr Phe Pro Thr Ala Ala Asn Leu Ser Gly Val Pro Pro Gln Pro
            260                 265                 270

Gly Thr Val Val Arg Met Gln Gly Leu Ala Tyr Asn Thr Gly Val Lys
        275                 280                 285

Glu Ile Leu Asn Phe Phe Gln Gly Tyr Gln Cys Leu Lys Asp Val Trp
    290                 295                 300
```

<210> 5048
<211> 254
<212> PRT
<213> Homo sapiens

<400> 5048

```
Trp Cys Ile Phe Asp Tyr Met Ala Val Tyr Arg Met Cys Cys Pro Tyr
 1               5                  10                  15

Thr Arg Arg Ala Ser Lys Ser Ser Arg Pro Met Tyr Gly Ala Val Thr
            20                  25                  30

Ser Phe Leu His Ser Leu Ile Ile Gln Asn Glu Pro Arg Phe Ala Met
        35                  40                  45

Phe Gly Pro Gly Leu Glu Glu Leu Asn Thr Ser Leu Val Leu Ser Leu
    50                  55                  60

Met Ser Ser Glu Glu Leu Cys Pro Thr Ala Gly Leu Pro Gln Arg Gln
65                  70                  75                  80

Ile Asp Gly Ile Gly Ser Gly Val Asn Phe Gln Leu Asn Asn Gln His
                85                  90                  95

Lys Phe Asn Ile Leu Ile Leu Tyr Ser Thr Thr Arg Lys Glu Arg Asp
            100                 105                 110

Arg Ala Arg Glu Glu His Thr Ser Ala Val Asn Lys Met Phe Ser Arg
        115                 120                 125

His Asn Glu Gly Asp Asp Gln Gln Gly Ser Arg Tyr Ser Val Ile Pro
    130                 135                 140

Gln Ile Gln Lys Val Cys Glu Val Val Asp Gly Phe Ile Tyr Val Ala
145                 150                 155                 160

Asn Ala Glu Ala His Lys Arg His Glu Trp Gln Asp Glu Phe Ser His
                165                 170                 175

Ile Met Ala Met Thr Asp Pro Ala Phe Gly Ser Ser Gly Arg Pro Leu
            180                 185                 190

Leu Val Leu Ser Cys Ile Ser Gln Gly Asp Val Lys Arg Met Pro Cys
        195                 200                 205

Phe Tyr Leu Ala His Glu Leu His Leu Asn Leu Leu Asn His Pro Trp
    210                 215                 220
```

```
Leu Val Gln Asp Thr Glu Ala Glu Thr Leu Thr Gly Phe Leu Asn Gly
225                 230                 235                 240

Ile Glu Trp Ile Leu Glu Glu Val Glu Ser Lys Arg Ala Arg
                245                 250
```

<210> 5049
<211> 45
<212> PRT
<213> Homo sapiens

<400> 5049

```
Phe Leu Ile Val His Lys Pro Leu Thr Lys Glu Ser Glu Ile Ser Pro
  1               5                  10                  15

Ser Val Lys Arg Lys Gln Ala Met Lys Cys Tyr Ile Cys Arg Leu Lys
             20                  25                  30

Ser Lys Leu Val Cys Phe Leu Lys Asn Leu Asn Gln Asp
         35                  40                  45
```

<210> 5050
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5050

```
Ser Cys Val Ser Ala Val Asp Thr Asn Ile Lys Cys Leu Val His Leu
  1               5                  10                  15

Lys Ser Leu Ser Leu Pro Tyr Met Gly Glu Thr Gln Ser Pro Ser Leu
             20                  25                  30

Cys Trp Lys Tyr His Gln Thr Asp Cys Lys Cys Ala Ala Val Ala Asp
         35                  40                  45

Ile Leu Val Trp Trp Cys Ala Ala Ile Ser Ala Leu His Leu Pro Xaa
     50                  55                  60

Trp Leu Pro Tyr Ser Cys Val Pro Ile Phe Ala Ser Met Leu Gly Val
 65                  70                  75                  80
```

Pro His Leu Leu His Phe Pro Ala Cys Asn Gln Glu Leu Thr
85 90

<210> 5051
<211> 200
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5051
Val Gly Pro Gly Ala Ala Trp Arg Arg Pro His Ser Gly Ile Met Ala
1 5 10 15

Gln Val Ala Met Ser Thr Leu Pro Val Glu Asp Glu Glu Ser Ser Glu
20 25 30

Ser Arg Met Val Val Thr Phe Leu Met Ser Ala Leu Glu Ser Met Cys
35 40 45

Lys Glu Leu Ala Lys Ser Lys Ala Glu Val Ala Cys Ile Ala Val Tyr
50 55 60

Glu Thr Asp Val Phe Val Val Gly Thr Glu Arg Gly Arg Ala Phe Val
65 70 75 80

Asn Thr Arg Lys Asp Phe Gln Lys Asp Phe Val Lys Tyr Cys Val Glu
85 90 95

Glu Glu Glu Lys Ala Ala Glu Met His Lys Met Lys Ser Thr Thr Gln
100 105 110

Ala Asn Arg Met Ser Val Asp Ala Val Glu Ile Glu Thr Leu Arg Lys
115 120 125

Thr Val Glu Asp Tyr Phe Cys Phe Cys Tyr Gly Lys Ala Leu Gly Lys
130 135 140

Ser Thr Val Val Pro Val Pro Tyr Glu Lys Met Leu Arg Asp Gln Ser
145 150 155 160

```
Ala Val Val Val Gln Gly Leu Pro Glu Gly Val Ala Phe Lys His Pro
                165                 170                 175

Glu Asn Tyr Asp Leu Ala Thr Leu Lys Trp Ile Leu Glu Asn Lys Ala
            180                 185                 190

Gly Ile Ser Phe Ile Xaa Lys Xaa
        195                 200
```

<210> 5052
<211> 179
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5052

```
Arg Glu Ile Glu Arg Lys Arg Gln Arg Glu Glu Glu Arg Arg Lys Trp
  1               5                  10                  15

Lys Glu Glu Glu Lys Arg Lys Arg Lys Asp Ile Glu Lys Leu Lys Lys
             20                  25                  30

Ile Asp Arg Ile Pro Glu Arg Asp Lys Leu Lys Asp Glu Pro Lys Ile
         35                  40                  45

Lys Leu Leu Lys Lys Pro Glu Lys Gly Asp Glu Lys Glu Leu Asp Lys
     50                  55                  60

Arg Glu Lys Ala Lys Lys Leu Asp Lys Glu Asn Leu Ser Asp Glu Arg
```

65 70 75 80

Ala Ser Gly Gln Ser Cys Thr Leu Pro Lys Arg Ser Asp Ser Glu Leu
85 90 95

Lys Asp Glu Lys Pro Lys Arg Pro Glu Asp Glu Ser Gly Arg Asp Xaa
100 105 110

Arg Glu Arg Glu Arg Glu Tyr Glu Arg Asp Gln Glu Arg Ile Leu Arg
115 120 125

Glu Arg Glu Arg Leu Lys Arg Gln Glu Glu Glu Arg Arg Arg Xaa Arg
130 135 140

Ser Ala Met Arg Lys Arg Arg Leu Leu Arg Xaa Lys Lys Lys Lys Xaa
145 150 155 160

Lys Lys Arg Lys Thr His Phe Gly Ile Lys Glu Arg Arg Leu Lys Val
165 170 175

Gln Asn Gln

<210> 5053
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5053
Gln Asp Gly Leu Asn Ser Leu Val Leu Asp Leu Asp Phe Pro Ala Leu
1 5 10 15

Arg Lys Asn Lys Asn Ile Asp Asn Phe Leu Asn Arg Tyr Glu Lys Ile
20 25 30

Val Lys Lys Ile Arg Gly Leu Gln Met Lys Ala Glu Asp Tyr Asp Val
35 40 45

Val Lys Val Ile Gly Arg Gly Xaa Phe Gly Glu Val Gln Leu Val Val
50 55 60

Thr Arg His Arg Arg Arg Phe Met Leu
65 70

<210> 5054
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5054
Pro Cys Ala Ile Ile Phe Phe His His Phe Ser Gly Xaa Leu Glu Gly
1 5 10 15

Gly Gly Asp Pro Gly Asp Leu Ser Thr Leu Phe Ser Gln Lys Ala Gly
20 25 30

Trp Phe Phe Ser Leu Phe Ser Cys Asp Ser Tyr Leu Glu Ser Gly Leu
35 40 45

Asn Val Asn Ile Leu Val Leu Val Val Gln Leu Arg
50 55 60

<210> 5055
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5055
Gly Arg Val Glu Lys Ser Leu Met Thr Leu Lys Ile Ser Ala Trp Leu
1 5 10 15

Leu Thr Lys Ile Gly Asn Xaa Xaa Xaa Gly Xaa Arg Phe Gly Lys Arg
20 25 30

Arg Glu Arg Ile Met Lys Phe Asp Phe Tyr Ile Glu Met Lys Gly Pro
35 40 45

Phe Gln Ile Trp Lys Ser Phe Gly Leu Asn Asn Xaa Xaa Ile Phe Asp
50 55 60

Leu Glu Asn Xaa Gly Xaa Lys Pro
65 70

<210> 5056
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5056
Leu Lys Cys Phe Glu Thr Val Val Asp Gly Tyr Glu Glu Leu Leu Phe

```
  1               5                  10                  15

Leu Leu Pro Cys Arg Thr Pro Glu Ser Lys Met Ile His Gln Gln Leu
             20                  25                  30

Tyr Trp Ser His Pro Arg Lys Val Ser Gln Gly Ser Cys Tyr Xaa Val
         35                  40                  45

Cys
```

<210> 5057
<211> 104
<212> PRT
<213> Homo sapiens

<400> 5057

```
Arg Ile Gln Glu Tyr Phe Leu Leu Gly Trp Ala Leu Asn Lys Ala Lys
  1               5                  10                  15

Asn Cys Arg Asn Gln Ser Arg Lys Ser Pro Ala His Leu Trp Pro Leu
             20                  25                  30

Pro Ser Ser Arg Pro Pro Pro Cys Arg Lys Asn Leu Ala Phe Gly Leu
         35                  40                  45

Ser Leu Ser His Arg Gly His Leu Leu Phe Pro Ser Asp Ile Gln Pro
     50                  55                  60

Tyr Arg Arg Ser Leu Asp Ser Asp Pro Ser Val Gln Ala Gly Trp Lys
 65                  70                  75                  80

Gly Pro Ser Thr Leu Pro Gly Arg Ser Glu Thr Asn Cys Phe Arg Glu
                 85                  90                  95

Ser Asp Gly Leu Pro Lys Thr Cys
             100
```

<210> 5058
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5058
Pro Thr Arg Pro Arg Thr Arg Gly Leu Lys Met Pro Leu Thr Phe Ile
1 5 10 15

Leu Leu Pro Ser Gly Lys Gly Asn Leu Val Phe Ser Ile Thr Ser Thr
20 25 30

Lys Ile Leu Leu Xaa Ser Thr His Tyr Pro Ile Pro Lys Pro Phe Ser
35 40 45

His Phe Lys Thr Phe Val Thr Glu Val Pro Asn Pro Ser Gln Phe His
50 55 60

Asn Leu His
65

<210> 5059
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5059
Thr Lys Leu His Phe Gln Gly Gln Gly Leu Gly Asn Xaa Leu Ile Val
1 5 10 15

Lys Ser Cys Asn Thr Ser Val Gln Val Asn Ile Ser Gly Pro Cys Phe
20 25 30

Pro Ser Gln Cys Met His Glu Leu Phe Phe Met His His Trp Gly Ala
35 40 45

Gln Ser Trp Xaa Asn Leu Pro Val Gly Ile Leu Gly Xaa Thr Trp Ala
50 55 60

```
Glu Pro His Ile Leu Leu Phe Arg Arg Pro Leu Pro Lys Asp Gln Gln
            100                 105                 110

Lys
```

<210> 5062
<211> 287
<212> PRT
<213> Homo sapiens

<400> 5062

```
Ser Gly Ser Ala Phe Leu Arg Cys Pro Pro Pro Pro Val Arg Arg Ser
  1               5                  10                  15

Glu Lys Pro Asn Trp Asp Tyr His Ala Glu Ile Gln Ala Phe Gly His
             20                  25                  30

Arg Leu Gln Glu Asn Phe Ser Leu Asp Leu Leu Lys Thr Ala Phe Val
         35                  40                  45

Asn Ser Cys Tyr Ile Lys Ser Glu Glu Ala Lys Arg Gln Gln Leu Gly
     50                  55                  60

Ile Glu Lys Glu Ala Val Leu Leu Asn Leu Lys Ser Asn Gln Glu Leu
 65                  70                  75                  80

Ser Glu Gln Gly Thr Ser Phe Ser Gln Thr Cys Leu Thr Gln Phe Leu
                 85                  90                  95

Glu Asp Glu Tyr Pro Asp Met Pro Thr Glu Gly Ile Lys Asn Leu Val
            100                 105                 110

Asp Phe Leu Thr Gly Glu Glu Val Val Cys His Val Ala Arg Asn Leu
        115                 120                 125

Ala Val Glu Gln Leu Thr Leu Ser Glu Glu Phe Pro Val Pro Pro Ala
    130                 135                 140

Val Leu Gln Gln Thr Phe Phe Ala Val Ile Gly Ala Leu Leu Gln Ser
145                 150                 155                 160

Ser Gly Pro Glu Arg Thr Ala Leu Phe Ile Arg Asp Phe Leu Ile Thr
                165                 170                 175

Gln Met Thr Gly Lys Glu Leu Phe Glu Met Trp Lys Ile Ile Asn Pro
            180                 185                 190
```

```
Met Gly Leu Leu Val Glu Glu Leu Lys Lys Arg Asn Val Ser Ala Pro
        195                 200                 205

Glu Ser Arg Leu Thr Arg Gln Ser Gly Gly Thr Thr Ala Leu Pro Leu
    210                 215                 220

Tyr Phe Val Gly Leu Tyr Cys Asp Lys Lys Leu Ile Ala Glu Gly Pro
225                 230                 235                 240

Gly Glu Thr Val Leu Val Ala Glu Glu Glu Ala Ala Arg Val Ala Leu
                245                 250                 255

Arg Lys Leu Tyr Gly Phe Thr Glu Asn Arg Arg Pro Trp Asn Tyr Ser
            260                 265                 270

Lys Pro Lys Glu Thr Leu Arg Ala Glu Lys Ser Ile Thr Ala Ser
        275                 280                 285
```

<210> 5063
<211> 61
<212> PRT
<213> Homo sapiens

<400> 5063

```
Ile Leu Thr Glu Phe Leu Glu Met Ile Val Asn Cys Leu Gln Ile Ile
  1               5                  10                  15

Glu Lys Cys Ile Tyr Leu Cys Val Cys Val Cys Gln Lys Cys Asn Cys
             20                  25                  30

Phe Ile Ile Phe Phe Pro Tyr Leu Tyr Ile Leu Phe Asn Thr Trp Phe
         35                  40                  45

Ile Ser Thr Val His Cys Phe Leu Cys Pro Lys Leu Thr
     50                  55                  60
```

<210> 5064
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5064
Glu Asp Pro Phe Thr Ile Leu Thr Lys Glu Ile Phe Phe Phe Thr Val
1 5 10 15

Glu Leu Val Cys Glu Asn Lys Glu Leu Cys Ser Ser Pro Arg Trp Arg
20 25 30

Asn Ala Ile Gln Lys Ser Asn Phe Ser Lys Val Thr Ser Phe Phe Met
35 40 45

Ser Cys His His Phe Lys Gly Leu Ala Pro Leu Pro His Val Tyr Thr
50 55 60

Gln Gly Asn Cys Arg Pro Ile Ser Cys Leu Gly Leu Thr Leu Met Pro
65 70 75 80

Phe Ala Ser Ser Phe Pro Glu Val Lys Val Pro Val Met Tyr Ser His
85 90 95

Arg Asn Ile Phe Gln Leu Phe Met Ser Phe Thr Thr Lys Lys Lys Xaa
100 105 110

Gln Ser Gly Met Gly Val Gln Leu Leu Xaa Xaa Phe Leu Val Arg Ile
115 120 125

Phe Tyr
130

<210> 5065
<211> 342
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5065
Ile Arg His Glu Gly Leu Gly Arg Met Lys Pro Asn Thr Leu Val Leu

4560

```
  1               5                  10                  15

Gly Phe Xaa Lys Asp Trp Leu Gln Ala Asp Met Arg Asp Val Asp Met
             20                  25                  30

Tyr Ile Asn Leu Phe His Asp Ala Phe Asp Ile Gln Tyr Gly Val Val
         35                  40                  45

Val Ile Arg Leu Lys Glu Gly Leu Asp Ile Ser His Leu Gln Gly Gln
     50                  55                  60

Glu Glu Leu Leu Ser Ser Gln Glu Lys Ser Pro Gly Thr Lys Asp Val
 65                  70                  75                  80

Val Val Ser Val Glu Tyr Ser Lys Lys Ser Asp Leu Asp Thr Ser Lys
                 85                  90                  95

Pro Leu Ser Glu Lys Pro Ile Thr His Lys Val Glu Glu Glu Asp Gly
            100                 105                 110

Lys Thr Ala Thr Gln Pro Leu Leu Lys Lys Glu Ser Lys Gly Pro Ile
        115                 120                 125

Val Pro Leu Asn Val Ala Asp Gln Lys Leu Leu Glu Ala Ser Thr Gln
    130                 135                 140

Phe Gln Lys Lys Gln Gly Lys Asn Thr Ile Asp Val Trp Trp Leu Phe
145                 150                 155                 160

Asp Asp Gly Gly Leu Thr Leu Leu Ile Pro Tyr Leu Leu Thr Thr Lys
                165                 170                 175

Lys Lys Trp Lys Asp Cys Lys Ile Arg Val Phe Ile Gly Gly Lys Ile
            180                 185                 190

Asn Arg Ile Asp His Asp Arg Arg Ala Met Ala Thr Leu Leu Ser Lys
        195                 200                 205

Phe Arg Ile Asp Phe Ser Asp Ile Met Val Leu Gly Asp Ile Asn Thr
    210                 215                 220

Lys Pro Lys Lys Glu Asn Ile Ile Ala Phe Glu Glu Ile Ile Glu Pro
225                 230                 235                 240

Tyr Arg Leu His Glu Asp Asp Lys Glu Gln Asp Ile Ala Asp Lys Met
                245                 250                 255

Lys Glu Asp Glu Pro Trp Arg Ile Thr Asp Asn Glu Leu Glu Leu Tyr
            260                 265                 270

Lys Thr Lys Thr Tyr Arg Gln Ile Arg Leu Asn Glu Leu Leu Lys Glu
```

```
           100                 105                 110

Pro His Ser Lys Val Ile Gln Met Asp Val Ala Leu Phe Glu Met Asn
        115                 120                 125

Gln Ser Asp Ser Lys Glu Val Asp Ser Ser Glu Glu Ser Ser Gln Asp
    130                 135                 140

Ser Ser Glu Asn Ser Ser Glu Ser Glu Asp Glu Asp Asp Ser Ile Pro
145                 150                 155                 160

Ser Glu Val Thr Ile Asp Asn Ile Lys Leu Pro Asn Ser Glu Gly Gly
                165                 170                 175

Lys Gly Lys Ile Glu Val Leu Asp Ser Pro Ala Ser Lys Lys Lys Lys
            180                 185                 190
```

<210> 5069
<211> 39
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5069

```
Leu Thr Ser Val Asn Ser Ser Pro Thr Arg Leu Met Thr Thr Phe Ile
  1               5                  10                  15

Leu His Glu Xaa Ile Val Phe Val Ser Thr Val Phe Tyr Tyr Phe Arg
             20                  25                  30

Ala Ser Leu Arg His Thr Ile
         35
```

<210> 5070
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5070

```
Gly Ser Gly Ala Glu Ala Xaa Asp Lys Lys Pro Arg Asp Leu Phe Gly
  1               5                  10                  15

Pro Pro Gly Pro Pro Xaa Ala Glu Val Thr Ala Glu Thr Leu Leu His
             20                  25                  30

Glu Phe Gln Glu Leu Leu Lys Glu Ala Thr Glu Arg Arg Phe Ser Gly
         35                  40                  45

Leu Leu Asp Pro Leu Leu Pro Gln Gly Ala Gly Leu Arg Leu Val Gly
     50                  55                  60

Glu Ala Phe His Cys Arg Leu Gln Gly Pro Arg Arg Val Asp Lys Arg
 65                  70                  75                  80

Thr Leu Val Glu Leu His Gly Phe Gln Ala Pro Ala Ala Gln Gly Ala
                 85                  90                  95

Phe Leu Arg Gly Ser Gly Leu Ser Leu Ala Ser Gly Arg Phe Thr Ala
            100                 105                 110

Pro Val Ser Gly Ile Phe Gln Phe Xaa Ala Xaa Leu Xaa Val Gly Ala
```

115 120 125

Gly Trp Gly Ser Ala Val Cys Cys Asp Gly Ala Gly Ala Xaa Leu Ser
130 135 140

Gly Gly
145

<210> 5071
<211> 126
<212> PRT
<213> Homo sapiens

<400> 5071
Glu Arg Ser His Leu Gln Pro Gly Ala Val Gly Ile Thr Glu Ser Pro
1 5 10 15

Ile Leu Gly Leu Gly Ser Ala Met Thr Thr Glu Ile Gly Trp Trp Lys
20 25 30

Leu Thr Phe Leu Arg Lys Lys Lys Ser Thr Pro Lys Val Leu Tyr Glu
35 40 45

Ile Pro Asp Thr Tyr Ala Gln Thr Glu Gly Asp Ala Glu Pro Pro Arg
50 55 60

Pro Asp Ala Gly Gly Pro Asn Ser Asp Phe Asn Thr Arg Leu Glu Lys
65 70 75 80

Ile Val Asp Lys Ser Thr Lys Gly Lys His Val Lys Val Ser Asn Ser
85 90 95

Gly Arg Phe Lys Glu Lys Lys Lys Val Arg Ala Thr Leu Ala Glu Asn
100 105 110

Pro Asn Leu Phe Asp Asp His Glu Glu Gly Arg Ser Ser Lys
115 120 125

<210> 5072
<211> 205
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5072
Tyr Cys Ser Leu Lys Thr Pro Leu Ser Glu Asn Asp Met Pro Ser Gln
1 5 10 15

Cys Asn Ser Glu Leu Val Arg Gly Pro Leu Ala Ala Pro Gly Gly Gly
20 25 30

Glu Arg Tyr Ser Arg Ser Ala Gly Met Tyr Met Gln Ser Gly Ser Asp
35 40 45

Phe Asn Cys Gly Val Xaa Arg Gly Cys Gly Leu Ala Pro Ser Leu Ser
50 55 60

Lys Arg Asp Glu Gly Ser Ser Pro Ser Leu Ala Leu Asn Thr Tyr Pro
65 70 75 80

Ser Tyr Leu Ser Gln Leu Asp Ser Trp Gly Asp Pro Lys Ala Ala Tyr
85 90 95

Arg Leu Glu Gln Pro Val Gly Arg Pro Leu Ser Ser Cys Ser Tyr Pro
100 105 110

Pro Ser Val Lys Glu Glu Asn Val Cys Cys Met Tyr Ser Ala Glu Lys
115 120 125

Arg Ala Lys Ser Gly Pro Glu Ala Ala Leu Tyr Ser His Pro Leu Pro
130 135 140

Glu Ser Cys Leu Gly Glu His Glu Val Pro Val Pro Ser Tyr Tyr Arg
145 150 155 160

Ala Ser Arg Ala Thr Pro Arg Trp Thr Arg Arg Pro Thr Val Leu Gly
165 170 175

Pro Thr Thr Ser Lys Pro Leu Ser Ser Ser Gly Pro Val Xaa Thr Arg
180 185 190

Ala Pro Asn Ile Trp Asn Arg Leu Ser Trp Gly Ala Lys
195 200 205

<210> 5073
<211> 84
<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5073
Val Ser Ser Asn Pro Asp Lys Ser Arg Cys Leu Gly Val Arg His Ile
1 5 10 15

Gln Asp Ile Gly Leu Trp Leu Gln Asn Arg Asn Leu Gly Gly Leu Gln
20 25 30

Leu Val Leu Gly Arg Leu Leu Leu Leu Arg Leu Leu Leu Ile Ile Leu
35 40 45

Leu Leu Leu Leu Leu Leu Leu Leu Leu Asn Arg Gln Xaa Asn Gln Xaa
50 55 60

Val His Xaa Val His His Gln Ser Pro Gly Pro Cys Gly Xaa Glu Val
65 70 75 80

Leu Xaa Thr Asn

<210> 5074
<211> 61
<212> PRT

<213> Homo sapiens

<400> 5074
Gly Arg Ala Lys Glu Arg Lys Val Asn Lys Lys Lys Gln Gln Gln Gln
1 5 10 15

Gln Pro Pro Gln Pro Pro Met Ala His Asp Ile Thr Ala Thr Pro Ala
20 25 30

Gly Pro Ser Leu Gly Gly Leu Cys Pro Ser Asn Thr Ser Leu Leu Ala
35 40 45

Thr Ser Ser Pro Met Pro Val Lys Glu Glu Phe Leu Pro
50 55 60

<210> 5075
<211> 57
<212> PRT
<213> Homo sapiens

<400> 5075
Phe His His Val Ala Gln Ala Gly Leu Asp Leu Pro Thr Ser Ser Asp
1 5 10 15

Leu Pro Ala Pro Thr Ser Gln Ser Ala Gly Ile Thr Gly Leu Ser His
20 25 30

Arg Ala Arg Pro Val Leu Phe Val Phe Val Glu Arg Trp Gly Phe Ala
35 40 45

Met Leu Pro Arg Leu Ile Ser Asn Ser
50 55

<210> 5076
<211> 218
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5076
Glu Val Leu Pro Gly Pro Gly Ser Thr Arg Val Trp Pro Gly Pro Ser
1 5 10 15

Val Ser Pro Arg Pro Gln Gly Gly Ala Leu Ser Thr Gln Lys Gly Pro
20 25 30

Lys Ala Gly His Gly Gly Ala Glu Glu Phe Gly Arg Cys Lys Gln Pro
35 40 45

His Ala Arg Gly Gly Gly Asp Cys Phe Ser Xaa Arg Pro His Ala Ser
50 55 60

Thr Phe His Xaa Ala Cys Pro Leu Leu Met Cys Ser Ser Gln Cys Leu
65 70 75 80

Cys Glu Pro Thr Ser Ala Gln Ser Tyr Pro Ser Ser Ala Cys Gly Asp
85 90 95

Pro Ala Pro Ala Ala Leu Leu Leu Pro Arg Pro Gln Thr Ala Trp Trp
100 105 110

Arg Val Leu His Leu Gly Gln Ala Gly Val His Pro Ala Lys Asp Lys
115 120 125

Ala Ala Ser Thr Cys Pro Arg Ile Gln Met Val His Trp Pro Arg Glu
130 135 140

Glu Ser Asp Gln Lys Trp Ser Pro Leu Cys Gly Glu Ala Pro Thr Pro
145 150 155 160

Pro Arg Glu Thr Val Pro Arg Cys Gly Ser Pro Pro Ser Leu Val Gly
165 170 175

His Ser Trp Pro Gly Pro Pro Ile Leu Arg Ser Phe Pro Gly Cys Gly
180 185 190

Phe Asp Leu Arg Ser Gly Ser Gly Leu Ala Ser Gly Val Trp Pro Gly
195 200 205

Pro Ala Cys Cys Ser Leu Leu Gly Gly Pro
210 215

<210> 5077
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5077
Gly Ser Ser Thr Ile Lys Ala Tyr Leu Ile Asn Asn Tyr Phe Cys Lys
1 5 10 15

Gln Val Gly Leu Thr Tyr Ser Ser Ser Phe Cys Leu Asp Met Asn Leu
20 25 30

Arg Ser Ser Cys Leu Lys Thr Phe Thr Leu Leu Phe Ser Asp Thr Phe
35 40 45

Pro Ser Tyr Phe Phe Phe Phe Phe Gly Cys Cys
50 55

<210> 5078
<211> 154
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5078
Phe Ile Leu Glu Leu Gln Met Gln Ser Ile Xaa Glu Lys Lys Met Lys
1 5 10 15

Xaa Xaa Arg Asn Ile Ala Xaa His Xaa Xaa Asn Xaa Pro Ser Leu Ile
20 25 30

Thr Phe Leu Cys Lys Asn Cys Ser Val Leu Ala Cys Ser Gly Glu Asp
35 40 45

Ile His Val Ile Glu Lys Met His His Val Asn Met Thr Pro Glu Phe
50 55 60

Lys Glu Leu Tyr Ile Val Arg Glu Asn Lys Xaa Leu Gln Lys Lys Cys
65 70 75 80

Ala Asp Tyr Gln Ile Asn Gly Glu Ile Ile Cys Lys Cys Gly Gln Ala
85 90 95

Trp Gly Thr Met Met Val His Lys Gly Leu Asp Leu Pro Cys Leu Lys
100 105 110

Ile Arg Asn Phe Val Val Val Phe Lys Asn Asn Ser Thr Lys Lys Gln
115 120 125

Tyr Lys Lys Trp Val Glu Leu Pro Ile Thr Phe Pro Asn Leu Asp Tyr
130 135 140

Ser Glu Cys Cys Leu Phe Ser Asp Glu Asp
145 150

<210> 5079
<211> 254
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5079

```
Xaa Ile Glu Ile Asn Pro His Val Lys Gly Thr Lys Ala Gly Ala Pro
 1               5                  10                  15

Pro Arg Cys Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu
            20                  25                  30

Phe Gly Thr Ser Ser Ser Thr Pro Ala Arg Pro Ser Ser His His Ser
        35                  40                  45

Ala Cys Phe Leu Gly Pro Glu Ile Met Pro Leu Gly Leu Leu Trp Leu
    50                  55                  60

Gly Leu Ala Leu Leu Gly Ala Leu His Ala Gln Ala Gln Asp Ser Thr
65                  70                  75                  80

Ser Asp Leu Ile Pro Ala Pro Pro Leu Ser Lys Val Pro Leu Gln Gln
                85                  90                  95

Asn Phe Gln Asp Asn Gln Phe Gln Gly Lys Trp Tyr Val Val Gly Leu
            100                 105                 110

Ala Gly Asn Ala Ile Leu Arg Glu Asp Lys Asp Pro Gln Lys Met Tyr
        115                 120                 125

Ala Thr Ile Tyr Glu Leu Lys Glu Asp Lys Ser Tyr Asn Val Thr Ser
    130                 135                 140

Val Leu Phe Arg Lys Lys Lys Cys Asp Tyr Trp Ile Arg Thr Phe Val
145                 150                 155                 160

Pro Gly Cys Gln Pro Gly Glu Phe Thr Leu Gly Asn Ile Lys Ser Tyr
                165                 170                 175

Pro Gly Leu Thr Ser Tyr Leu Val Arg Val Val Ser Thr Asn Tyr Asn
            180                 185                 190

Gln His Ala Met Val Phe Phe Lys Lys Val Ser Gln Asn Arg Glu Tyr
        195                 200                 205

Phe Lys Ile Thr Leu Tyr Gly Arg Thr Lys Glu Leu Thr Ser Glu Leu
    210                 215                 220

Lys Glu Asn Phe Ile Arg Phe Ser Lys Ser Leu Gly Leu Pro Glu Asn
225                 230                 235                 240

His Ile Val Phe Pro Val Pro Ile Asp Gln Cys Ile Asp Gly
                245                 250
```

<210> 5080
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5080
Gln Ala Ala Asp Lys Tyr Val Asp Asp Met Gly Gln Leu Arg Ala Pro
1 5 10 15

Phe Ala Cys His Leu Pro Pro Leu Leu Trp Met Val Ser Pro Leu Ala
20 25 30

Arg Leu Pro Gly Thr Asp His Val Ala Ile Lys Ala Asn Val Asn Lys
35 40 45

Tyr His Glu Thr Val Val Cys Ile Val Phe
50 55

<210> 5081
<211> 76
<212> PRT
<213> Homo sapiens

<400> 5081
Ser Leu Ala Phe Gln Gly Ala Ser Ile Ala Leu His His Asp Leu Ala
1 5 10 15

Leu Val Leu Leu Arg Asp Leu Pro Thr Ala Gly Ser Val Pro Ser Ser
20 25 30

Val Ile Val Leu His Ser Asp Thr Ile Ile Ala Gly Leu Asn Ile Ala
35 40 45

Ile Asn Met Ser Val Pro Gln Ala Glu Arg Gly Phe Leu Ile Leu Arg
50 55 60

Glu Gln Lys Val Phe Trp Leu Lys Arg Leu Lys Thr
65 70 75

<210> 5082
<211> 66
<212> PRT
<213> Homo sapiens

<400> 5082
Lys Tyr Leu Arg Ala Ile Ile Val Gly His Leu Arg Ser Ser Val Asn

```
 1               5                  10                  15

Ser Glu Leu Ala Asn Leu Ser Leu Cys Val Ser Thr Leu Ile Phe Phe
            20                  25                  30

Phe Ser Trp Val Ser Glu Ala Ser Lys Phe Phe Gln Lys Trp Ser Ile
        35                  40                  45

Thr Lys Leu Ser Glu Thr Gln Tyr Leu Met Tyr Cys Thr Arg Leu Pro
    50                  55                  60

Asn Ser
 65
```

<210> 5083
<211> 361
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (344)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (350)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (356)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (359)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5083
Xaa Leu His Arg Gly Asp Asp Arg Ser Arg Thr Ser Gly Ser Pro Gly
1 5 10 15

Leu Gln Glu Phe Gly Arg Gly Xaa Ala Gly Val Gly Gly Arg Pro Arg
20 25 30

Arg Arg Arg Arg Lys Gly Ala Ala Ser Arg Ala Arg Leu Pro Phe Ser
35 40 45

Leu Ser Ile Met Asp Pro Ser Leu Leu Arg Glu Arg Glu Leu Phe Lys
50 55 60

Lys Arg Ala Leu Ser Thr Pro Val Val Glu Lys Arg Ser Ala Ser Ser
65 70 75 80

Glu Ser Ser Ser Ser Ser Ser Lys Lys Lys Lys Thr Lys Val Glu His
85 90 95

Gly Gly Ser Ser Gly Ser Lys Gln Asn Ser Asp His Ser Asn Gly Ser
100 105 110

Phe Asn Leu Lys Ala Leu Ser Gly Ser Ser Gly Tyr Lys Phe Gly Val
115 120 125

Leu Ala Lys Ile Val Asn Tyr Met Lys Thr Arg His Gln Arg Gly Asp
130 135 140

Thr His Pro Leu Thr Leu Asp Glu Ile Leu Asp Glu Thr Gln His Leu
145 150 155 160

Asp Ile Gly Leu Lys Gln Lys Gln Trp Leu Met Thr Glu Ala Leu Val
165 170 175

Asn Asn Pro Lys Ile Glu Val Ile Asp Gly Lys Tyr Ala Phe Lys Pro
180 185 190

Lys Tyr Asn Val Arg Asp Lys Lys Ala Leu Leu Arg Leu Leu Asp Gln
195 200 205

His Asp Gln Arg Gly Leu Gly Gly Ile Leu Leu Glu Asp Ile Glu Glu
210 215 220

Ala Leu Pro Asn Ser Gln Lys Ala Val Lys Ala Leu Gly Asp Gln Ile
225 230 235 240

Leu Phe Val Asn Arg Pro Asp Lys Lys Lys Ile Leu Phe Phe Asn Asp
245 250 255

Lys Ser Cys Gln Phe Ser Val Asp Glu Glu Phe Gln Lys Leu Trp Arg
260 265 270

```
Ser Val Thr Val Asp Ser Met Asp Glu Glu Lys Ile Glu Glu Tyr Leu
        275                 280                 285

Lys Arg Gln Gly Ile Ser Ser Met Gln Glu Ser Gly Pro Lys Lys Val
    290                 295                 300

Ala Pro Ile Gln Arg Arg Lys Lys Pro Ala Ser Gln Lys Lys Arg Arg
305                 310                 315                 320

Phe Lys Thr His Asn Glu His Leu Ala Gly Val Leu Lys Asp Tyr Ser
                325                 330                 335

Asp Ile Thr Ser Ser Asn Arg Xaa Gln Phe Cys Leu Gly Xaa Glu Leu
            340                 345                 350

Gln Ile His Xaa Gln Glu Xaa Ser Cys
        355                 360
```

<210> 5084
<211> 69
<212> PRT
<213> Homo sapiens

<400> 5084

```
Ile Arg Asn Thr Cys Ile Trp Trp Lys Pro Trp Ile Ser Thr Ser Ser
  1               5                  10                  15

Asn Tyr Ser Ser Leu Tyr Ser Leu Leu Cys Lys Leu Val Tyr Asn Leu
             20                  25                  30

Gln Ala Asp Leu Lys Ile Phe Leu Tyr Leu Ile Ala Ala Ala Phe Ile
         35                  40                  45

Leu Gly Ser Ala Val Thr Phe Asn Tyr Leu Asn Leu Leu Pro Glu Gly
     50                  55                  60

Met Ser Leu Thr Phe
 65
```

<210> 5085
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5085
Leu Trp Phe Arg Trp Phe Gln Phe Ser Asp Ile Ser Ser Ser Arg Lys
1 5 10 15

Ala Asp Ser Leu Cys His Ser His Leu Ala Thr Ala Ala Gly Gly Ser
20 25 30

Gly Asp Lys Asp Leu Ser Ile Gly Pro Ala His Gly Gly Asn Thr Lys
35 40 45

Glu Pro Gly Ala Asp Ala Phe Phe Arg Ala Val Thr Thr Pro Glu His
50 55 60

Ala Thr Leu Glu Thr Ile Leu Arg His Asn Gln Leu Ile Leu Glu Ala
65 70 75 80

Ile Gln Gln Lys Ile Glu Cys Lys Leu Phe Thr Ser Xaa Xaa Glu His
85 90 95

Leu Xaa Lys Leu
100

<210> 5086
<211> 21
<212> PRT
<213> Homo sapiens

<400> 5086
Ile Pro Ala Thr Arg Glu Ala Glu Ala Gly Glu Ser Leu Glu Pro Gly
1 5 10 15

Arg Trp Arg Leu Gln
20

<210> 5087
<211> 44
<212> PRT
<213> Homo sapiens

<400> 5087
Asp Leu Glu Glu Ile Ile Leu Tyr Tyr Phe Leu Ser Val Phe Phe Asn
1 5 10 15

Ala Phe Thr Ser Gly Val Gly Met Leu Asp Phe Ile Phe Leu Lys Thr
20 25 30

Asn Lys Ile Trp Lys Ala Leu Pro Leu Asn Val Thr
35 40

<210> 5088
<211> 239
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5088
Ser Leu Glu Asn Asp Lys Met Arg Leu Glu Lys Asp Leu Ser Phe Lys
1 5 10 15

Asp Thr Gln Leu Lys Glu Tyr Glu Glu Leu Leu Ala Ser Val Arg Ala
20 25 30

Asn Asn His Gln Gln Gln Gln Gly Leu Gln Asp Ser Ser Ser Lys Cys
35 40 45

Gln Ala Leu Glu Glu Asn Asn Leu Ser Leu Arg His Thr Leu Ser Asp
50 55 60

Met Glu Tyr Arg Leu Lys Glu Leu Glu Tyr Xaa Lys Arg Asn Leu Glu
65 70 75 80

Gln Glu Asn Gln Asn Leu Arg Met Gln Val Ser Glu Thr Cys Thr Gly
85 90 95

Pro Met Leu Gln Ala Lys Met Asp Glu Ile Gly Asn His Tyr Thr Glu
100 105 110

Met Val Lys Asn Leu Arg Met Glu Lys Asp Arg Glu Ile Cys Arg Leu
115 120 125

85 90 95

Arg Ala Leu Met Ala Leu Lys Lys Arg Thr Lys Asp Lys Leu Phe Gln
100 105 110

Phe Leu Lys Leu Arg Lys Tyr Ser Ile Lys Val His
115 120

<210> 5090
<211> 216
<212> PRT
<213> Homo sapiens

<400> 5090
Gly His Met Glu Leu Ala Met Asp Asn Ser Tyr Ala Phe Asn Gln Arg
1 5 10 15

Ser Thr Cys Asn Gly Ile Pro Ser Glu Lys Lys Asn Asn Phe Leu Val
20 25 30

Ser Glu Asp His Gly Gln Lys Ile Leu Ser Val Leu Gln Asn Phe Arg
35 40 45

Glu Gln Asn Val Phe Tyr Asp Phe Lys Ile Ile Met Lys Asp Glu Ile
50 55 60

Ile Pro Cys His Arg Cys Val Leu Ala Ala Cys Ser Asp Phe Phe Arg
65 70 75 80

Ala Met Phe Glu Val Asn Met Lys Glu Arg Asp Asp Gly Ser Val Thr
85 90 95

Ile Thr Asn Leu Ser Ser Lys Ala Val Lys Ala Phe Leu Asp Tyr Ala
100 105 110

Tyr Thr Gly Lys Thr Lys Ile Thr Asp Asp Asn Val Glu Met Phe Phe
115 120 125

Gln Leu Ser Ser Phe Leu Gln Val Ser Phe Leu Ser Lys Ala Cys Ser
130 135 140

Asp Phe Leu Ile Lys Ser Ile Asn Leu Val Asn Cys Leu Gln Leu Leu
145 150 155 160

Ser Ile Ser Asp Ser Tyr Gly Ser Thr Ser Leu Phe Asp His Ala Leu
165 170 175

His Phe Val Gln His His Phe Ser Leu Leu Phe Lys Ser Ser Asp Phe
180 185 190

```
Leu Glu Met Asn Phe Gly Val Leu Gln Lys Cys Leu Glu Ser Asp Glu
        195                 200                 205

Leu Asn Val Pro Glu Glu Glu Lys
    210                 215
```

<210> 5091
<211> 535
<212> PRT
<213> Homo sapiens

<400> 5091

```
Ser Cys Arg Ile Arg His Glu Arg Leu Thr Ser Ala Val Ser Leu Gln
  1               5                  10                  15

Leu Arg Ala Pro Gly Ala Ala Arg Pro Ala Ser Gly Leu Pro Asp Arg
             20                  25                  30

Leu Trp Pro Ala Pro Ser Pro Ser Pro Gly Ala His Arg Ala Ala Ala
         35                  40                  45

Gly Ala Glu Gln Pro Pro Ser Arg Pro Ser Ala Gly Pro Ala Arg Ser
     50                  55                  60

Gly Arg Met Asn Asp Phe Gly Ile Lys Asn Met Asp Gln Val Ala Pro
 65                  70                  75                  80

Val Ala Asn Ser Tyr Arg Gly Thr Leu Lys Arg Gln Pro Ala Phe Asp
                 85                  90                  95

Thr Phe Asp Gly Ser Leu Phe Ala Val Phe Pro Ser Leu Asn Glu Glu
            100                 105                 110

Gln Thr Leu Gln Glu Val Pro Thr Gly Leu Asp Ser Ile Ser His Asp
        115                 120                 125

Ser Ala Asn Cys Glu Leu Pro Leu Leu Thr Pro Cys Ser Lys Ala Val
    130                 135                 140

Met Ser Gln Ala Leu Lys Ala Thr Phe Ser Gly Phe Lys Lys Glu Gln
145                 150                 155                 160

Arg Arg Leu Gly Ile Pro Lys Asn Pro Trp Leu Trp Ser Glu Gln Gln
                165                 170                 175

Val Cys Gln Trp Leu Leu Trp Ala Thr Asn Glu Phe Ser Leu Val Asn
            180                 185                 190
```

```
Val Asn Leu Gln Arg Phe Gly Met Asn Gly Gln Met Leu Cys Asn Leu
        195                 200                 205

Gly Lys Glu Arg Phe Leu Glu Leu Ala Pro Asp Phe Val Gly Asp Ile
    210                 215                 220

Leu Trp Glu His Leu Glu Gln Met Ile Lys Glu Asn Gln Glu Lys Thr
225                 230                 235                 240

Glu Asp Gln Tyr Glu Glu Asn Ser His Leu Thr Ser Val Pro His Trp
                245                 250                 255

Ile Asn Ser Asn Thr Leu Gly Phe Gly Thr Glu Gln Ala Pro Tyr Gly
            260                 265                 270

Met Gln Thr Gln Asn Tyr Pro Lys Gly Gly Leu Leu Asp Ser Met Cys
        275                 280                 285

Pro Ala Ser Thr Pro Ser Val Leu Ser Ser Glu Gln Glu Phe Gln Met
    290                 295                 300

Phe Pro Lys Ser Arg Leu Ser Ser Val Ser Val Thr Tyr Cys Ser Val
305                 310                 315                 320

Ser Gln Asp Phe Pro Gly Ser Asn Leu Asn Leu Leu Thr Asn Asn Ser
                325                 330                 335

Gly Thr Pro Lys Asp His Asp Ser Pro Glu Asn Gly Ala Asp Ser Phe
            340                 345                 350

Glu Ser Ser Asp Ser Leu Leu Gln Ser Trp Asn Ser Gln Ser Ser Leu
        355                 360                 365

Leu Asp Val Gln Arg Val Pro Ser Phe Glu Ser Phe Glu Asp Asp Cys
    370                 375                 380

Ser Gln Ser Leu Cys Leu Asn Lys Pro Thr Met Ser Phe Lys Asp Tyr
385                 390                 395                 400

Ile Gln Glu Arg Ser Asp Pro Val Glu Gln Gly Lys Pro Val Ile Pro
                405                 410                 415

Ala Ala Val Leu Ala Gly Phe Thr Gly Ser Gly Pro Ile Gln Leu Trp
            420                 425                 430

Gln Phe Leu Leu Glu Leu Leu Ser Asp Lys Ser Cys Gln Ser Phe Ile
        435                 440                 445

Ser Trp Thr Gly Asp Gly Trp Glu Phe Lys Leu Ala Asp Pro Asp Glu
    450                 455                 460
```

```
Val Ala Arg Arg Trp Gly Lys Arg Lys Asn Lys Pro Lys Met Asn Tyr
465                 470                 475                 480

Glu Lys Leu Ser Arg Gly Leu Arg Tyr Tyr Tyr Asp Lys Asn Ile Ile
                485                 490                 495

His Lys Thr Ser Gly Lys Arg Tyr Val Tyr Arg Phe Val Cys Asp Leu
            500                 505                 510

Gln Asn Leu Leu Gly Phe Thr Pro Glu Glu Leu His Ala Ile Leu Gly
        515                 520                 525

Val Gln Pro Asp Thr Glu Asp
    530                 535
```

<210> 5092
<211> 452
<212> PRT
<213> Homo sapiens

<400> 5092

```
Asp Pro Arg Val Arg Pro Arg Arg Pro Gln Ser Leu Ser Pro Val Leu
  1               5                  10                  15

Ser Leu Ser Pro Asp Ser Met Ser Phe Thr Thr Arg Ser Thr Phe Ser
             20                  25                  30

Thr Asn Tyr Arg Ser Leu Gly Ser Val Gln Ala Pro Ser Tyr Gly Ala
         35                  40                  45

Arg Pro Val Ser Ser Ala Ala Ser Val Tyr Ala Gly Ala Gly Gly Ser
     50                  55                  60

Gly Ser Arg Ile Ser Val Ser Arg Ser Thr Ser Phe Arg Gly Gly Met
 65                  70                  75                  80

Gly Ser Gly Gly Leu Ala Thr Gly Ile Ala Gly Gly Leu Ala Gly Met
                85                  90                  95

Gly Gly Ile Gln Asn Glu Lys Glu Thr Met Gln Ser Leu Asn Asp Arg
            100                 105                 110

Leu Ala Ser Tyr Leu Asp Arg Val Arg Ser Leu Glu Thr Glu Asn Arg
        115                 120                 125

Arg Leu Glu Ser Lys Ile Arg Glu His Leu Glu Lys Lys Gly Pro Gln
    130                 135                 140

Val Arg Asp Trp Ser His Tyr Phe Lys Ile Ile Glu Asp Leu Arg Ala
```

```
145                 150                 155                 160

Gln Ile Phe Ala Asn Thr Val Asp Asn Ala Arg Ile Val Leu Gln Ile
                165                 170                 175

Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Val Lys Tyr Glu Thr
            180                 185                 190

Glu Leu Ala Met Arg Gln Ser Val Glu Asn Asp Ile His Gly Leu Arg
        195                 200                 205

Lys Val Ile Asp Asp Thr Asn Ile Thr Arg Leu Gln Leu Glu Thr Glu
    210                 215                 220

Ile Glu Ala Leu Lys Glu Glu Leu Leu Phe Met Lys Lys Asn His Glu
225                 230                 235                 240

Glu Glu Val Lys Gly Leu Gln Ala Gln Ile Ala Ser Ser Gly Leu Thr
                245                 250                 255

Val Glu Val Asp Ala Pro Lys Ser Gln Asp Leu Ala Lys Ile Met Ala
            260                 265                 270

Asp Ile Arg Ala Gln Tyr Asp Glu Leu Ala Arg Lys Asn Arg Glu Glu
        275                 280                 285

Leu Asp Lys Tyr Trp Ser Gln Gln Ile Glu Glu Ser Thr Thr Val Val
    290                 295                 300

Thr Thr Gln Ser Ala Glu Val Gly Ala Ala Glu Thr Thr Leu Thr Glu
305                 310                 315                 320

Leu Arg Arg Thr Val Gln Ser Leu Glu Ile Asp Leu Asp Ser Met Arg
                325                 330                 335

Asn Leu Lys Ala Ser Leu Glu Asn Ser Leu Arg Glu Val Glu Ala Arg
            340                 345                 350

Tyr Ala Leu Gln Met Glu Gln Leu Asn Gly Ile Leu Leu His Leu Glu
        355                 360                 365

Ser Glu Leu Ala Gln Thr Arg Ala Glu Gly Gln Arg Gln Ala Gln Glu
    370                 375                 380

Tyr Glu Ala Leu Leu Asn Ile Lys Val Lys Leu Glu Ala Glu Ile Ala
385                 390                 395                 400

Thr Tyr Arg Arg Leu Leu Glu Asp Gly Glu Asp Phe Asn Leu Gly Asp
                405                 410                 415

Ala Leu Asp Ser Ser Asn Ser Met Gln Thr Ile Gln Lys Thr Thr Thr
```

420 425 430

Arg Arg Ile Val Asp Gly Lys Val Val Ser Glu Thr Asn Asp Thr Lys
435 440 445

Val Leu Arg His
450

<210> 5093
<211> 110
<212> PRT
<213> Homo sapiens

<400> 5093
Leu Ser Ile Phe Ser Ser Ser Pro Ile Met Val Asp Asn Asp Ser Ser
1 5 10 15

Gly Thr Ser Asp Lys Asp His Ser Glu Ile Leu Asp Gly Ile Ser Asn
20 25 30

Ile Lys Leu Asn Ser Glu Glu Val Thr Gln Ser Gln Leu Asp Ser Cys
35 40 45

Thr Ser His Asp Gly His Gln Gln Leu Ser Glu Val Ser Ser Lys Arg
50 55 60

Glu Cys Pro Ala Ser Gly Gln Ser Glu Pro Arg Asn Gly Gly Thr Asn
65 70 75 80

Glu Glu Ser Asn Ser Ser Gly Asn Thr Asn Thr Asp Pro Pro Ala Glu
85 90 95

Asp Ser Gln Lys Ser Ser Gly Ala Asn Gln Ala Lys Thr Asp
100 105 110

<210> 5094
<211> 66
<212> PRT
<213> Homo sapiens

<400> 5094
Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Gly Arg Ser Arg
1 5 10 15

Lys Ile Leu Thr His Lys Asn Phe Gly Leu Glu Ser Phe Pro Gly Val
20 25 30

```
Val Pro Ile Lys Thr Asp Leu Glu Arg Lys Pro Ala Gln His Gly Thr
         35                  40                  45

Cys Phe Leu Asn Ser Leu Glu Ser Val Trp Cys Met Ser Leu Leu Ile
     50                  55                  60

Tyr Ser
 65
```

<210> 5095
<211> 241
<212> PRT
<213> Homo sapiens

<400> 5095

```
Ser Phe Ser Glu Met Ala Gly Val Ser Ala Cys Ile Lys Tyr Ser Met
  1               5                  10                  15

Phe Thr Phe Asn Phe Leu Phe Trp Leu Cys Gly Ile Leu Ile Leu Ala
             20                  25                  30

Leu Ala Ile Trp Val Arg Val Ser Asn Asp Ser Gln Ala Ile Phe Gly
         35                  40                  45

Ser Glu Asp Val Gly Ser Ser Ser Tyr Val Ala Val Asp Ile Leu Ile
     50                  55                  60

Ala Val Gly Ala Ile Ile Met Ile Leu Gly Phe Leu Gly Cys Cys Gly
 65                  70                  75                  80

Ala Ile Lys Glu Ser Arg Cys Met Leu Leu Leu Phe Phe Ile Gly Leu
                 85                  90                  95

Leu Leu Ile Leu Leu Leu Gln Val Ala Thr Gly Ile Leu Gly Ala Val
            100                 105                 110

Phe Lys Ser Lys Ser Asp Arg Ile Val Asn Glu Thr Leu Tyr Glu Asn
        115                 120                 125

Thr Lys Leu Leu Ser Ala Thr Gly Glu Ser Glu Lys Gln Phe Gln Glu
    130                 135                 140

Ala Ile Ile Val Phe Gln Glu Glu Phe Lys Cys Cys Gly Leu Val Asn
145                 150                 155                 160

Gly Ala Ala Asp Trp Gly Asn Asn Phe Gln His Tyr Pro Glu Leu Cys
                165                 170                 175

Ala Cys Leu Asp Lys Gln Arg Pro Cys Gln Ser Tyr Asn Gly Lys Gln
```

180 185 190

Val Tyr Lys Glu Thr Cys Ile Ser Phe Ile Lys Asp Phe Leu Ala Lys
195 200 205

Asn Leu Ile Ile Val Ile Gly Ile Ser Phe Gly Leu Ala Val Ile Glu
210 215 220

Ile Leu Gly Leu Val Phe Ser Met Val Leu Tyr Cys Gln Ile Gly Asn
225 230 235 240

Lys

<210> 5096
<211> 81
<212> PRT
<213> Homo sapiens

<400> 5096
Gly Gly Phe Phe Ser Ile Ser Phe Lys Arg Cys Met Ser Glu Phe Pro
1 5 10 15

Leu His Thr Lys Asn Trp Ser Leu Glu Pro His Tyr Ser Leu Ser Gln
20 25 30

Val Leu Val Pro Tyr Thr Pro Glu Cys Gln Met Val Gly Ala Asp Trp
35 40 45

Lys Lys Glu Lys Ser Ser Ser Arg Cys Val Gly Ser His Pro Pro His
50 55 60

Ile Ala Ser Pro Ser Ser Glu Gln Trp Ala Trp Gly Arg Lys Leu Phe
65 70 75 80

Gln

<210> 5097
<211> 103
<212> PRT
<213> Homo sapiens

<400> 5097
Arg Pro Gln Arg Leu Gly Arg Leu Gly Phe Pro Leu Pro Pro Arg Thr
1 5 10 15

Pro Lys Asp Thr Pro Asn Pro Arg Pro Ala Gly Pro Ala Leu Ala Arg
20 25 30

Pro Lys Tyr Tyr Leu Ala Gln Ala Ser Ala Arg Gly Thr Pro Lys Leu
35 40 45

Pro Met Tyr Pro Ala Pro Glu Gly Leu His Ser Gln Glu Val Pro Met
50 55 60

Tyr Pro Asn Thr Gly Arg His Pro Ala Pro Pro Ser Gln Thr Arg Lys
65 70 75 80

Lys Val Asn Leu Thr Thr Thr Tyr Ser Pro Lys Thr Thr Tyr Phe Val
85 90 95

Leu Ala Gly Leu Pro Ala Thr
100

<210> 5098
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5098
Ile Gly Thr Ser Ser Phe Ala Asn His Pro Pro Ala Ala Arg Leu Phe
1 5 10 15

Pro Ala Asn Lys Glu Arg Glu Glu Ile Gln Thr Leu Lys Gln Gln Xaa
20 25 30

Ala Xaa Leu Arg Glu Asp Leu Lys Xaa Xaa Glu Xaa Lys Trp Ser Ser
35 40 45

Thr His Ser Arg Leu Arg Ser Gln Ile Gln Met Leu Val Arg Glu Asn
50 55 60

Thr Asp Xaa Arg Glu Glu Ile Lys Val Met Glu Arg Phe Arg Leu Asp
65 70 75 80

Ala Trp Lys Arg Ala Glu Ala Ile Glu Ser Ser Leu Glu Val Glu Lys
85 90 95

Lys Asp Lys Leu Ala Asn Thr Ser Val Arg Phe Gln Asn Ser Gln Ile
100 105 110

Ser Ser Gly Thr Gln Val Glu Lys Tyr Lys Lys Asn Tyr Leu Pro Met
115 120 125

Gln Gly Lys Arg Leu His Asp Leu Phe Ile Lys His Phe Arg Met
130 135 140

<210> 5099
<211> 121
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5099
Thr Met Ile Thr Pro Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys
1 5 10 15

Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro
20 25 30

```
Pro Gly Cys Arg Asn Ser Ala Arg Gly Xaa Gly Asn Glu Tyr Ile His
         35                  40                  45

Phe Ser Val Ile Lys Leu Leu Lys Val Asn Phe Asn Val Leu Ile Val
     50                  55                  60

Phe Leu Met Cys Ala Ala Glu Met Ala Met Ser Leu Leu Asn Leu His
 65                  70                  75                  80

Leu Gln Leu Lys Gly Ser Phe Arg Arg Lys Tyr Lys Leu Ala Phe Ile
                85                  90                  95

Leu Gln Thr Ile Val Phe Tyr Phe Ile Ile Leu Ile Cys Phe Val Thr
            100                 105                 110

His Lys Lys Glu Thr Ile Pro Glu Leu
        115                 120
```

<210> 5100
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5100

```
Gln Xaa Glu Leu Xaa Leu Lys Lys Lys Lys Lys Ile Ile Cys Lys Ile
  1               5                  10                  15

Asn Ser Gly Ile Val Val Leu Phe Lys Glu Met Phe Cys Lys Leu Ser
             20                  25                  30

Ser His Tyr Ile Ile Phe Ile Val Leu Ser
         35                  40
```

<210> 5101
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5101
Lys Tyr His Ser Ser His Xaa Asn Ile Pro Phe Asn Leu Leu Phe Leu
1 5 10 15

Lys Gly Tyr Cys Lys Tyr Glu Ser Ile Tyr Lys Val Asn Cys Tyr Phe
20 25 30

Phe Cys Ser Glu Lys Tyr Thr Leu Lys Ile Val Ile Val Asn Asn Val
35 40 45

<210> 5102
<211> 45
<212> PRT
<213> Homo sapiens

<400> 5102
Glu Arg Asn Trp Met Phe Gln Lys Leu Leu His Leu Leu Gln Met Ser
1 5 10 15

Gln Ile Gln Leu Leu Pro Phe Glu Asn Val Gly Glu Met Ser Leu Lys
20 25 30

Asn Met Phe Val Cys Lys Asn Val Ser Val Cys Asn Ser
35 40 45

<210> 5103
<211> 57
<212> PRT
<213> Homo sapiens

<400> 5103
Val Trp Gly Pro Pro Val Pro Ser Trp Ala Ala Glu Gly Gly Ala Phe
1 5 10 15

Tyr Pro Arg Phe Leu Ser Leu Leu Lys Ser Leu Glu Gln Thr Val Ala
20 25 30

Ala Leu His Pro Leu Leu Phe Lys Lys Asn Phe Phe Ser Arg Lys Lys

35 40 45

Met Leu Ser Val Cys Trp Gly Lys Phe
50 55

<210> 5104
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5104
Gly Lys Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
1 5 10 15

Pro Arg Val Arg Ser Leu Asp Ser Asn Xaa Leu Ser Ile Asn Phe Ser
20 25 30

Pro Gln Thr Thr Val Asn Phe Tyr Phe Leu Ser Ala Glu Ile Phe His
35 40 45

Arg Trp Lys Leu Met Phe Gln Phe
50 55

<210> 5105
<211> 370
<212> PRT
<213> Homo sapiens

<400> 5105
Lys Gly Arg Ser Ser Glu Ser Thr Thr Pro Leu Asn Val Ser Arg Glu
1 5 10 15

Thr Leu Gln Gln His Lys Leu Leu Lys Val Ile Arg Lys Lys Leu Val
20 25 30

Arg Lys Thr Leu Asp Met Ile Lys Lys Ile Ala Asp Asp Lys Tyr Asn
35 40 45

Asp Thr Phe Trp Lys Glu Phe Gly Thr Asn Ile Lys Leu Gly Val Ile
50 55 60

Glu Asp His Ser Asn Arg Thr Arg Leu Ala Lys Leu Leu Arg Phe Gln

65 70 75 80

Ser Ser His His Pro Thr Asp Ile Thr Ser Leu Asp Gln Tyr Val Glu
85 90 95

Arg Met Lys Glu Lys Gln Asp Lys Ile Tyr Phe Met Ala Gly Ser Ser
100 105 110

Arg Lys Glu Ala Glu Ser Ser Pro Phe Val Glu Arg Leu Leu Lys Lys
115 120 125

Gly Tyr Glu Val Ile Tyr Leu Thr Glu Pro Val Asp Glu Tyr Cys Ile
130 135 140

Gln Ala Leu Pro Glu Phe Asp Gly Lys Arg Phe Gln Asn Val Ala Lys
145 150 155 160

Glu Gly Val Lys Phe Asp Glu Ser Glu Lys Thr Lys Glu Ser Arg Glu
165 170 175

Ala Val Glu Lys Glu Phe Glu Pro Leu Leu Asn Trp Met Lys Asp Lys
180 185 190

Ala Leu Lys Asp Lys Ile Glu Lys Ala Val Val Ser Gln Arg Leu Thr
195 200 205

Glu Ser Pro Cys Ala Leu Val Ala Ser Gln Tyr Gly Trp Ser Gly Asn
210 215 220

Met Glu Arg Ile Met Lys Ala Gln Ala Tyr Gln Thr Gly Lys Asp Ile
225 230 235 240

Ser Thr Asn Tyr Tyr Ala Ser Gln Lys Lys Thr Phe Glu Ile Asn Pro
245 250 255

Arg His Pro Leu Ile Arg Asp Met Leu Arg Arg Ile Lys Glu Asp Glu
260 265 270

Asp Asp Lys Thr Val Leu Asp Leu Ala Val Val Leu Phe Glu Thr Ala
275 280 285

Thr Leu Arg Ser Gly Tyr Leu Leu Pro Asp Thr Lys Ala Tyr Gly Asp
290 295 300

Arg Ile Glu Arg Met Leu Arg Leu Ser Leu Asn Ile Asp Pro Asp Ala
305 310 315 320

Lys Val Glu Glu Glu Pro Glu Glu Glu Pro Glu Glu Thr Ala Glu Asp
325 330 335

Thr Thr Glu Asp Thr Glu Gln Asp Glu Asp Glu Glu Met Asp Val Gly

340 345 350

Thr Asp Glu Glu Glu Glu Thr Ala Lys Glu Ser Thr Ala Glu Lys Asp
355 360 365

Glu Leu
370

<210> 5106
<211> 64
<212> PRT
<213> Homo sapiens

<400> 5106
Ile Ile Ile Ile Lys Lys Ile Asn Ala Met Gln Leu Gly Met Ala Asn
1 5 10 15

Val Asn Ala Tyr Leu Tyr Gln Arg Leu Thr Leu Ser Ser Gly Leu Ser
20 25 30

Leu Val Asp Tyr Pro Trp Gln Thr Leu Asn Glu Gln Arg Glu Ala Thr
35 40 45

Met Leu Lys Asp Lys Ser Pro Leu Ser Ser Tyr Tyr Arg Asn Asn Val
50 55 60

<210> 5107
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5107
Xaa Gln Ala Thr Ala Ile Asn Thr Asp Val Asn Gly Cys Ile Cys Phe
1 5 10 15

Ala Val Val Thr Gly Leu Gly Arg Phe Gly Ile Cys Glu Arg Ile Asp
20 25 30

Ser Phe Ser Lys Leu Phe His Lys Val Lys Lys Leu His Phe Lys Gly
35 40 45

Asn Arg Ser Tyr Ser Ser Leu Lys Ser Xaa Ser Asn Cys Ser Phe Ile
50 55 60

<210> 5108
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5108
Val Glu Pro Arg His Ser Ser Ala Xaa Asn Leu His Ser Leu Ser Ile
1 5 10 15

Ser His Ser Pro Ser Leu Phe Pro Leu Trp Pro His Trp His Pro Gly
20 25 30

Thr Phe Xaa Pro Xaa Gly Leu Cys Thr Tyr Cys Ser Asn Ser Leu Glu
35 40 45

Cys Pro His Ser His Thr Lys Ser Leu Ala Ser Phe Thr Ala Leu Leu

50 55 60

Lys Ser His Leu Leu Ser Glu Ala Phe Pro Asp His Pro Ala Thr Asn
65 70 75 80

Ser Pro Ser Leu Cys Asn Ile Ala Gly Phe Phe Leu Xaa Ala Phe Ile
85 90 95

Ile Ser

<210> 5109
<211> 15
<212> PRT
<213> Homo sapiens

<400> 5109
Val Glu Thr Gly Phe Ile Met Leu Cys Arg Leu Leu Ser Asn Ser
1 5 10 15

<210> 5110
<211> 144
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5110
Glu Lys Pro Phe Ser Ser Phe Thr Ser Met Lys Ser Ser Asp Val Phe

```
  1               5                  10                  15

Ser Ser Lys Gly Met Thr Arg Trp Gly Glu Phe Asp Asp Leu Tyr Arg
            20                  25                  30

Ile Ser Glu Leu Asp Arg Thr Gln Ile Pro Met Ser Glu Lys Arg Asn
        35                  40                  45

Ser Gln Glu Asp Tyr Leu Ser Tyr His Ser Asn Thr Leu Lys Pro His
    50                  55                  60

Ala Lys Asp Glu Pro Asp Ser Pro Val Leu Tyr Arg Thr Met Ser Glu
65                  70                  75                  80

Ala Ala Leu Val Arg Lys Arg Met Lys Pro Leu Met Met Asp Arg Xaa
                85                  90                  95

Glu Arg Gln Lys Asn Arg Ala Ser Ile Asn Gly His Phe Tyr Asn His
            100                 105                 110

Glu Thr Ser Ile Phe Ile Pro Ala Phe Glu Ser Xaa Thr Lys Val Arg
        115                 120                 125

Val Xaa Ser Xaa Met Arg Thr Glu Glu Val Ile Lys Gln Leu Leu Gln
    130                 135                 140
```

<210> 5111
<211> 112
<212> PRT
<213> Homo sapiens

<400> 5111

```
Arg Phe Phe Ile Ile Val Pro Lys Thr Asn Thr Leu Gln Val Val Leu
  1               5                  10                  15

Glu Arg His His Phe Cys Gly Met Phe Trp Leu Gly Glu Gly Val Thr
            20                  25                  30

Val Pro Thr Pro Pro Thr Ser Tyr Ala Ser Ala Leu Arg Arg Trp Leu
        35                  40                  45

Phe Ile Gln Thr Trp Thr Tyr Ser Leu Pro Arg Ala Asp Glu Met Leu
    50                  55                  60

Asn Phe Leu Trp Gly His Ser Leu Ile Val Pro Ala Ala Ala Thr Gly
65                  70                  75                  80
```

Ala Pro Val Val Pro Ala Thr Gln Xaa Gly Glu
20 25

<210> 5114
<211> 333
<212> PRT
<213> Homo sapiens

<400> 5114
Arg Pro Arg Val Arg Glu Asn Leu Pro Leu Trp Gln His Ile Ser Phe
1 5 10 15

Gln Ala Leu Pro Pro Glu Leu Arg Glu Gln Thr Val His Glu Val Thr
20 25 30

Thr Val Gly Thr Ala Glu Cys Arg Lys Trp Leu Ser Arg Ser Arg Thr
35 40 45

Leu Gly Glu Leu Glu Ser Leu Asn Thr Val Leu Ser Ala Leu Leu Ala
50 55 60

Val Cys Asn Ser Ala Gly Glu Ala Leu Asp Thr Gly Lys Gln Thr Ala
65 70 75 80

Ile Ile Glu Val Val Ser Gln Leu Trp Ala Phe Leu Asn Ile Lys Gln
85 90 95

Val Ala Asp Gln Pro Tyr Val Gln Gln Thr Phe Ser Leu Leu Leu Pro
100 105 110

Leu Leu Gly Phe Phe Ile Gln Thr Leu Asp Pro Lys Leu Ile Leu Gln
115 120 125

Ala Val Thr Leu Gln Thr Ser Leu Leu Lys Leu Glu Leu Pro Asp Tyr
130 135 140

Val Arg Leu Ala Met Leu Asp Phe Val Ser Ser Leu Gly Lys Leu Phe
145 150 155 160

Ile Pro Glu Ala Ile Gln Asp Arg Ile Leu Pro Asn Leu Ser Cys Met
165 170 175

Phe Ala Leu Leu Leu Ala Asp Arg Ser Trp Leu Leu Glu Gln His Thr
180 185 190

Leu Glu Ala Phe Thr Gln Phe Ala Glu Gly Thr Asn His Glu Glu Ile
195 200 205

```
Val Pro Gln Cys Leu Ser Ser Glu Glu Thr Lys Asn Lys Val Val Ser
    210                 215                 220

Phe Leu Glu Lys Thr Gly Phe Val Asp Glu Thr Glu Ala Ala Lys Val
225                 230                 235                 240

Glu Arg Val Lys Gln Glu Lys Gly Ile Phe Trp Glu Pro Phe Ala Asn
                245                 250                 255

Val Thr Val Glu Glu Ala Lys Arg Ser Ser Leu Gln Pro Tyr Ala Lys
            260                 265                 270

Arg Ala Arg Gln Glu Phe Pro Trp Glu Glu Glu Tyr Arg Ser Ala Leu
        275                 280                 285

His Thr Ile Ala Gly Ala Leu Glu Ala Thr Glu Ser Leu Leu Gln Lys
    290                 295                 300

Gly Pro Ala Pro Ala Trp Leu Ser Met Glu Met Glu Ala Leu Gln Glu
305                 310                 315                 320

Arg Met Asp Lys Leu Lys Arg Tyr Ile His Thr Leu Gly
                325                 330
```

<210> 5115
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5115

```
Glu Gln Gln Leu Arg Arg Gly Gly Arg Val Gly Gly Gln Pro Tyr Val
  1               5                  10                  15

Trp Ser Thr Gln Arg Pro Ala Ile Pro Ile Ser Val Leu Leu Ser Ile
             20                  25                  30

Ser Ser Glu Asp Leu Ser Glu Asn Arg Ala Gly Met Arg Ser Gln Thr
         35                  40                  45
```

<210> 5116
<211> 40
<212> PRT
<213> Homo sapiens

<400> 5116
Asn Pro Ile Ser Thr Lys Asn Ala Lys Ile Ser His Val Trp Cys Tyr
1 5 10 15

Ala Pro Val Val Pro Ala Thr Leu Glu Ala Glu Ala Gly Glu Ser Leu
20 25 30

Glu Pro Arg Arg Arg Arg Leu Trp
35 40

<210> 5117
<211> 32
<212> PRT
<213> Homo sapiens

<400> 5117
Asn His Leu Ile Cys Lys Leu Glu Trp Ala Leu Glu Asn His Thr Val
1 5 10 15

Phe Leu Ser His Phe Thr Gly Lys Ile Thr Asp Val Ser Ile Cys Asp
20 25 30

<210> 5118
<211> 16
<212> PRT
<213> Homo sapiens

<400> 5118
Asn Phe Ile Ala Leu Ser Ser Tyr Ile Ile Lys Glu Asp Lys Pro Gln
1 5 10 15

<210> 5119
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5119
Pro Leu Pro His Ala Asp Leu Gln Gln Val Ala Gln Xaa Glu Pro Asn
1 5 10 15

Asn Ala Tyr Asp Glu Glu Asp Cys Val Glu Met Val Ala Ser Gly Gly
20 25 30

Trp Asn Asp Val Ala Cys His Thr Thr Met Tyr Phe Met Cys Glu Phe
35 40 45

Asp Lys Glu Asn Met
50

<210> 5120
<211> 61
<212> PRT
<213> Homo sapiens

<400> 5120
Ser Leu Asp Ile His Lys Glu Arg Arg Tyr Ser Asp Glu Gly Asp His
1 5 10 15

Asn Ser Val Val Leu Met Ile Leu Asp Tyr Asn Leu Phe Leu Phe Ile
20 25 30

Phe His Ser Phe Phe Lys Asn Met Asp Cys Ile Leu Ser Thr Thr Ile
35 40 45

Ser Gln Ile Pro Lys Ile Val Leu Thr Phe Ser Asp Tyr
50 55 60

<210> 5121
<211> 189
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5121
Gln Asn Asn Thr Val Leu Val Glu Gly Cys Phe Cys Pro Glu Gly Thr
1 5 10 15

Met Asn Tyr Ala Pro Gly Phe Asp Val Cys Val Lys Thr Cys Gly Cys
20 25 30

Xaa Gly Pro Asp Asn Val Pro Arg Glu Phe Gly Glu His Phe Glu Phe
35 40 45

Asp Cys Lys Asn Cys Val Cys Leu Glu Gly Gly Ser Gly Ile Ile Cys
50 55 60

Gln Pro Lys Arg Cys Ser Gln Lys Pro Val Thr His Cys Val Glu Asp
65 70 75 80

Gly Thr Tyr Leu Ala Thr Glu Val Asn Pro Ala Asp Thr Cys Cys Asn
85 90 95

Xaa Thr Val Cys Lys Cys Gln His Gln Pro Val Gln Arg Glu Ala Leu
100 105 110

Arg Val Pro Ala Gly Asn Ser Lys Trp Lys Ser Lys Met Val Pro Gly
115 120 125

Lys Cys Cys Pro Phe Tyr Trp Cys Glu Val Gln Gly Gly Val Cys Ser
130 135 140

Arg Gly Met Leu Ser Thr Ser Pro Val Leu Pro Val Tyr Ser Ser Lys
145 150 155 160

Trp Pro Gly Leu Ala Cys Xaa Lys Gly Gln Gly Gly Thr Thr Thr Thr
165 170 175

Leu Xaa Gln Arg Ser Leu Ala Trp Gln Pro Thr Gly Gly
180 185

<210> 5122

<211> 225
<212> PRT
<213> Homo sapiens

<400> 5122

```
Glu Ala Ser Ser Pro Thr Phe Ser Lys Glu Pro Met Lys Val Gln Asp
  1               5                  10                  15

Ser Val Leu Ile Lys Ala Asp Asn Thr Ile Glu Gly Asp Asn Asn Glu
             20                  25                  30

Gln Asn Tyr Ile Lys Asp Val Lys Leu Glu Asp His Leu Leu Ala Gly
         35                  40                  45

Ser Cys Leu Lys Gln Ser Ser Lys Asn Ile Phe Thr Glu Arg Ala Glu
     50                  55                  60

Asp Gln Ile Lys Ile Ser Thr Arg Lys Gln Lys Ser Val Lys Glu Ile
 65                  70                  75                  80

Ser Ser Tyr Thr Pro Lys Asp Cys Thr Ser Arg Asn Gly Pro Glu Arg
                 85                  90                  95

Gly Cys Asp Arg Gly Ile Ile Val Ser Thr Arg Leu Leu Thr Asp Ser
            100                 105                 110

Ser Thr Asp Ala Leu Glu Lys Val Ser Thr Ser Asn Glu Asp Phe Ser
        115                 120                 125

Leu Lys Asp Asp Ala Leu Ala Lys Thr Ser Lys Arg Lys Thr Lys Val
    130                 135                 140

Gln Lys Asp Glu Ile Cys Ala Lys Leu Ser His Val Ile Lys Lys Gln
145                 150                 155                 160

His Arg Lys Ser Thr Leu Val Asp Asn Thr Ile Asn Leu Asp Glu Asn
                165                 170                 175

Leu Thr Val Ser Asn Ile Glu Ser Phe Tyr Ser Arg Lys Asp Thr Gly
            180                 185                 190

Val Gln Lys Gly Asp Gly Phe Ile His Asn Leu Ser Leu Asp Pro Ser
        195                 200                 205

Gly Val Leu Asp Asp Lys Asn Gly Glu Gln Lys Ser Gln Asn Asn Val
    210                 215                 220

Leu
225
```

<210> 5123
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5123
Glu Gln Lys Gly Ser Arg Glu Trp Gly Ser Lys Asn Gly Ser Arg Val
1 5 10 15

Arg Met Arg Ser Gln Xaa Lys Trp Cys Phe Xaa Gly Gly His Lys Glu
20 25 30

Gly Arg Val Ile Asp Phe
35

<210> 5124
<211> 71
<212> PRT
<213> Homo sapiens

<400> 5124
Cys Gln Thr Ile Trp Arg Ser Ile Arg Gly Leu Thr Gly His Ile Ile
1 5 10 15

Arg Gln Pro His Phe Ser Ser Ser Ser Met Arg Lys Trp Met Ile Ser
20 25 30

Leu Phe His Met Ser Leu Gly Glu Arg Leu Pro Val Pro Leu Lys Leu
35 40 45

Cys Ile Leu Leu Glu Thr Glu Ala Ser Arg Trp Leu Trp Gln Leu Ala
50 55 60

Lys Ala Lys Met Leu Cys Ala
65 70

<210> 5125
<211> 184
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (184)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5125
Arg Arg Val Gln Gln Glu Ile Asp Asp Val Ile Gly Gln Val Arg Arg
1 5 10 15

Pro Glu Met Gly Asp Gln Ala His Met Pro Tyr Thr Thr Ala Val Ile
20 25 30

His Glu Val Gln Arg Phe Gly Asp Ile Val Pro Xaa Gly Val Thr His
35 40 45

Met Thr Ser Arg Asp Ile Glu Val Gln Gly Phe Arg Ile Pro Lys Gly
50 55 60

Thr Thr Leu Ile Thr Asn Leu Ser Ser Val Leu Lys Asp Glu Ala Val
65 70 75 80

Trp Glu Lys Pro Phe Arg Phe His Pro Glu His Phe Leu Asp Ala Gln
85 90 95

Gly His Phe Val Lys Pro Glu Ala Phe Leu Pro Phe Ser Ala Gly Arg
100 105 110

Arg Ala Cys Leu Gly Glu Pro Leu Ala Arg Met Glu Leu Phe Leu Phe
115 120 125

Phe Thr Ser Leu Leu Gln His Phe Ser Phe Ser Val Pro Thr Gly Gln
130 135 140

Pro Arg Pro Ser His His Gly Val Phe Ala Phe Leu Val Ser Pro Ser
145 150 155 160

```
Pro Tyr Glu Leu Cys Ala Val Pro Arg Arg Met Gly Tyr Leu Val Pro
                165                 170                 175

Ser Leu Leu Pro Xaa Gln Arg Xaa
            180
```

<210> 5126
<211> 84
<212> PRT
<213> Homo sapiens

<400> 5126

```
Ala Gln Val Ser Phe Ser Pro Trp Met Ala Ser Ala Ala Pro Gly Arg
  1               5                  10                  15

Pro His Leu Val Leu Tyr Cys Glu Ser Leu Ala Thr Gln Val Arg Ser
             20                  25                  30

Gly Pro Gly Pro Arg Met Ala Ser Val Ala Arg Lys Tyr Ala Lys Glu
         35                  40                  45

Glu Val Asn Pro Ile Ala Gly Leu Glu Asp Ser Asp Gln Thr Thr Arg
     50                  55                  60

Gly Leu Leu Asn Lys Gly Arg Arg Cys Pro Cys Leu Met Gly Leu Ala
 65                  70                  75                  80

Trp Gly Gly Gly
```

<210> 5127
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5127

```
Arg Pro Pro Thr Thr Thr Lys Phe Ala Xaa Ala Arg Gln Met Ala Gly
```

```
  1               5                  10                  15

Lys Gln Ala Val Ser Xaa Ser Gly Lys Trp Leu Asp Gly Ile Arg Lys
            20                  25                  30

Trp Tyr Tyr Asn Ala Ala Gly Phe Asn Lys Leu Gly Leu Met Arg Asp
        35                  40                  45

Asp Thr Ile Tyr Glu Asp Glu Asp Val Lys Glu Ala Ile Arg Arg Leu
    50                  55                  60

Pro Glu Asn Leu Tyr Asn Asp Arg Met Phe Arg Ile Lys Arg Ala Leu
65                  70                  75                  80

Asp Leu Asn Leu Lys His Gln Ile Leu Pro Lys Glu Gln Trp Thr Lys
                85                  90                  95

Tyr Glu Glu Glu Asn Phe Tyr Leu Glu Pro Tyr Leu Lys Glu Val Ile
            100                 105                 110

Arg Glu Arg Lys Glu Arg Glu Glu Trp Ala Lys Lys
        115                 120
```

<210> 5128
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5128

```
Tyr Gln Leu Gln Ala Gly Arg Glu Ser Leu Gln His Gly Pro Lys Met
  1               5                  10                  15

Leu Ser Leu Gln Thr Gly Glu Gly Gln Val Gly Ser His Ser Ser Glu
            20                  25                  30

Ser Leu Tyr Tyr Thr Ile Glu Ser Tyr Val Phe Ser Arg Phe Gly Val
        35                  40                  45

Glu Ala Ile His Ile Tyr Glu Glu Ser Gln Ala Gln Glu Gln
    50                  55                  60
```

<210> 5129
<211> 49
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5129
Phe Lys Trp Val Pro Gln Asn Leu Val Val Ile Leu Leu Gly Ile Phe
1 5 10 15

Val Gln Tyr Ile Ala Leu Xaa Ser Ser Pro Thr Phe Ser Pro Leu Arg
20 25 30

Lys His Leu His Phe Leu Ser Ser Pro Asn Trp Glu Asn Met Gln Ile
35 40 45

Leu

<210> 5130
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5130
Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Asn Lys Cys
1 5 10 15

Xaa Val Xaa Phe Ile Thr Asn Ile Asn Ile Ile Phe Leu Leu Phe Ile
20 25 30

Leu Tyr Ala Ser Phe Tyr Thr Phe Thr His Thr Lys Asn Ile Lys Asn
35 40 45

Ile Ser Asn Tyr Ser Ile Leu Val Glu Phe Ser Leu Lys
50 55 60

<210> 5131
<211> 58

<212> PRT
<213> Homo sapiens

<400> 5131
Ile Tyr Val Lys His Lys Pro Leu Ile Phe Leu Lys Lys Ser Arg Leu
1 5 10 15

Leu Phe Phe His Ile Ile Ser Glu Pro Phe Ser Ser Phe Ala Cys Pro
20 25 30

Leu Leu Gln Asn His Thr Asp Phe Val Leu His Phe Ile His His Leu
35 40 45

Leu Lys Cys Pro Leu Lys Cys Asn Gly Ile
50 55

<210> 5132
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5132
Asn Ala Lys Ser Gln Met Tyr Leu Ser Met Asn Phe Asp Ala Cys Thr
1 5 10 15

His Leu Tyr Asn Ser Asn His Tyr Xaa Asp Val Glu His Asp His His
20 25 30

Thr Arg Gly Pro Pro Ala Pro Ser Gln Leu Ile Leu Ile Ser Thr Pro
35 40 45

Glu Ser Asn His Ser Ser Asp Phe Phe His His Arg Leu Val
50 55 60

<210> 5133
<211> 70
<212> PRT
<213> Homo sapiens

<400> 5133
Arg Lys Pro Leu Trp Cys Leu Asn Asp Lys Tyr Ala Asp Ala Thr Leu
1 5 10 15

```
Leu Cys Leu Met Tyr Gly Ala Leu Gly Gln Leu Phe Asn Ile Lys Gln
            20                  25                  30

Leu Arg Thr Cys Phe Arg Lys Cys Cys Ser Phe Ala Leu His Ala Lys
        35                  40                  45

Val Leu Gly Lys Lys Leu Thr Ile Cys Lys Asn Ile Asp Ala Gln Ala
    50                  55                  60

His Lys Glu Phe Ile Leu
65                  70
```

<210> 5134
<211> 96
<212> PRT
<213> Homo sapiens

<400> 5134

```
Lys Leu Pro Asn Phe Tyr Gln Leu Glu Gly His Pro Trp Val Phe Val
  1               5                  10                  15

Arg Ser Tyr Leu Met Ser Leu Cys Leu Gly Asp Ser Ala Gly Trp Ser
            20                  25                  30

Leu Gly Pro Gly Gly Pro Ser Pro Gly Val Cys Arg Trp Thr Arg Ser
        35                  40                  45

Pro Thr Gly Asp Ile Asn Leu Arg Val Ala Ser Leu Glu Thr Gly Thr
    50                  55                  60

Trp Ala Ala Leu Phe Pro Ser Pro Leu Leu Arg Gly Leu Gly Arg Cys
65                  70                  75                  80

Cys Phe His Ala Ala Ser Thr Ile Thr Leu Gly Phe Leu Asp Gly Lys
                85                  90                  95
```

<210> 5135
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5135

```
His Asp Leu Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe
```

```
  1               5                  10                  15

Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Ser
             20                  25                  30

Arg Pro Gly Asn Phe Phe Val Leu Leu Val Glu Thr Val Ile His Tyr
         35                  40                  45

Val Gly Gln Ala Ser His Glu Leu Leu Thr Ser
     50                  55
```

<210> 5136
<211> 70
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5136

```
Gly Phe Ile Gln Arg Ser Asn Phe Leu Xaa Xaa Gln Lys Ile His Thr
  1               5                  10                  15

Glu Glu Lys Leu Tyr Glu Cys Ser Gln Tyr Gly Arg Asp Phe Asn Ser
             20                  25                  30

Thr Thr Asn Val Lys Asn Asn Gln Arg Val His Gln Glu Gly Leu Ser
         35                  40                  45

Leu Ser Lys Ala Pro Ile His Leu Gly Glu Arg Ser Val Asp Lys Gly
     50                  55                  60

Glu His Thr Gly Asn Leu
 65                  70
```

<210> 5137
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5137
Pro Val Ser Phe Tyr Leu Pro Leu Pro Phe Trp Met Lys Met Leu Ile
1 5 10 15

Val Gly His Phe Leu Ala Arg Thr Ala Leu Val Pro Leu Thr His Lys
20 25 30

Thr Arg Leu Leu Ser Phe Ile Asp Thr Ser Ile Lys Lys Arg Phe Lys
35 40 45

Asp Arg Ala Arg Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala
50 55 60

Glu Ala Gly Gly Ser Pro Glu Val Gly Ser Ser Arg Pro Ala
65 70 75

<210> 5138
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5138
Ile Pro Arg Leu Leu Cys Ser Thr Gly Gln Thr Ser Trp Ser Ile Cys
1 5 10 15

Val Gly Glu Thr Trp Glu Lys Ala Lys Thr Met Cys Glu Cys Tyr Asp
20 25 30

Tyr Leu Phe Asp Ile Ala Val Ser Met Lys Lys Val Gly Leu Asp Pro
35 40 45

Ser Gln Leu Pro Val Gly Glu Asn Gly Ile Val
50 55

<210> 5139
<211> 56
<212> PRT
<213> Homo sapiens

<400> 5139
Asp Phe Phe Ser Leu Tyr Phe His Pro Thr Asn His Leu Glu Ser Gly
1 5 10 15

Ile Lys Gly Ile Asn Gln Glu Lys Thr Glu Gly Gln Glu Thr Glu Pro
20 25 30

Asn Lys Gly Asp Pro Ser Gln Gly Ala Trp Glu Ser Ala Gly Leu Asp

35 40 45

Ala Pro Pro Ser Ser Ala Ser Tyr
50 55

<210> 5140
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5140
Thr Gly Leu Glu Thr Leu Gly Ser Gln His Leu Tyr Phe Leu Val Arg
1 5 10 15

Lys Trp Ala Trp Arg Cys Trp Glu Ile Lys Arg Gly Val Gly Glu Asp
20 25 30

Pro Val Ser Val Ser Ser Cys Val Val Asp Val Asn Leu Ala Val Asn
35 40 45

Val Ala Gly Cys Val Ser Cys Leu Leu Ser Asn Cys Trp Leu Pro Arg
50 55 60

His Ser Val Leu Leu Xaa Phe Ser Glu Phe His
65 70 75

<210> 5141
<211> 33
<212> PRT
<213> Homo sapiens

<400> 5141
His Ala Ser Ser Leu Gly Asp Arg Val Arg Leu Phe Leu Lys Ile Lys
1 5 10 15

Thr Lys Asn Lys Phe Leu Leu Glu Val Gly Trp Arg Trp Gly Ala Arg
20 25 30

Ile

<210> 5142
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5142
Met Tyr Ser Lys Val Trp Leu Pro Phe Arg Ser Leu Gly Gly Ala Val
1 5 10 15

Leu Asn Ser Phe Ser Asn Arg Ala Thr Phe Tyr Phe Leu Ile Glu Leu
20 25 30

Leu Phe Asn Phe Tyr Phe Leu Ile Gly Xaa
35 40

<210> 5143
<211> 118
<212> PRT
<213> Homo sapiens

<400> 5143
Ala Gly Pro Glu Leu Pro Pro Leu Gln Val Gln Met His Arg Cys Ser
1 5 10 15

Cys Pro Ser Val Ser Ser Gln Gly Cys Lys Arg Arg Thr His Pro Ser
20 25 30

Arg Lys Gln Pro Glu Pro Gly Thr Gly Cys Ala Lys Glu His Cys Tyr
35 40 45

Gln Val Glu Glu Arg Gly Leu Pro Cys Thr Gln Asp Val Glu Ser Leu
50 55 60

Leu Arg Ser Glu Gln Lys Ile Lys Asn Lys Ser Leu Leu Lys Gly Leu
65 70 75 80

Ile Gly Gln Val Cys Phe Ser Leu Glu Gln Cys Phe Ala Leu Glu Asn
85 90 95

Cys Lys Ile Tyr Val Met Thr Gln Tyr Ile Cys Val Arg Thr Tyr Met
100 105 110

Ile Gly Ile Lys Cys Leu

115

<210> 5144
<211> 70
<212> PRT
<213> Homo sapiens

<400> 5144
Ser Gln Lys Gly Arg Val Ile Ile Lys Glu Glu Ser Asp Gln Glu Ser
1 5 10 15

Lys Ile Asp Arg Glu Ser Arg Leu Leu Glu Lys Trp Glu Asn Tyr Arg
20 25 30

Thr Asp Ser Ala Arg Arg Arg Gln Ala Gly Glu Glu Arg Pro Ser Gln
35 40 45

Ser Ser Thr Cys Ala Asn Arg Lys Cys Val Arg Gly Phe Leu Glu Leu
50 55 60

Thr Gly Ala Gly Asp His
65 70

<210> 5145
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5145
Val Met Asn Ile Arg Ile Ile Ala Leu Ser Ala Gly Ser Phe Thr Arg
1 5 10 15

Gln Glu Phe Xaa Asn Cys Pro Ile Asn Ile Cys Leu Xaa Ser Cys Lys
20 25 30

Lys Asp Xaa Phe Ile Phe Cys Ile Phe Ile Thr
35 40

<210> 5146
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5146
Phe Gly Ser Leu Lys Met Leu Cys Gly Ala Lys Gln Ile Val Cys Gln
1 5 10 15

Met Trp Pro Ser Ser Cys Gln Ser Cys Leu Tyr Gln Asp Ala Ser Leu
20 25 30

Leu Thr Asn Ser His Ile Ala Thr Gly Val Glu Thr Val Leu Ala Thr
35 40 45

Lys Leu Xaa Gly Phe His
50

<210> 5147
<211> 57
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5147
Trp Tyr Pro Xaa Pro Pro Gly Xaa Asp Xaa Asp Gly Pro Lys Ser His
1 5 10 15

Leu Gly Xaa Arg Leu Tyr Gly Lys Xaa Gly Leu Ser Asn Tyr Phe Gln
20 25 30

Tyr Ser Ile Val Phe His Cys Pro Phe Val Phe His Lys Leu Asn Asp
35 40 45

Cys Leu Ile Phe Pro Lys Ile Tyr Phe
50 55

<210> 5148
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5148
Val Phe Glu Pro Thr Ser His Ala Thr Ser His Lys Xaa Thr Tyr His
1 5 10 15

Leu Arg Thr Ser Ser Ala Lys Met Pro Glu Asn Ile Gln Ser Ser Trp
20 25 30

Gln Met Thr Gln Gly Ser Leu Ala Leu Leu Thr Ile Phe Leu Ala Asn
35 40 45

Leu Asp Trp Lys Gly His Leu Gln His Cys Pro Gly Ala Asn Thr Leu
50 55 60

Phe His Cys Leu Cys His Ile Met Met Pro Ala Leu Ala Ser Trp Trp

65 70 75 80

Val Phe Gly Gly Ile Leu His Glu Asp Cys Pro Ile Arg Gly Arg Tyr
85 90 95

Thr Tyr Leu Ala Lys
100

<210> 5149
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5149
Ala Arg Ile Arg Met Ala Ile Ser Pro Arg Ser Asp Ala Thr Phe Ser
1 5 10 15

Ser Gln Lys Ser Thr Pro Ser Glu Ser Pro Arg Thr Lys Lys Phe Pro
20 25 30

Leu Thr Glu Glu Glu Ile Phe Tyr Met Xaa Cys Arg Ala Ala Tyr Leu
35 40 45

Thr Val Phe Lys Ser Ser Leu Glu Asn Ile Ile Ser Lys Asp Gln Leu
50 55 60

Tyr Leu Ala Leu Gln His Ala Gly Arg Asn Pro Ser Gln Lys Thr Ile
65 70 75 80

Asn Lys Tyr Trp Thr Pro Gln Thr Ala Lys Leu Asn Phe Asp Asp Phe
85 90 95

Cys Ile Ile Leu Arg Lys Glu Lys Pro Thr Ser Lys Ala Glu Leu Leu
100 105 110

Lys Ser Phe Lys Gln Leu Asp Val Asn Asp Asp Gly Cys Ile Leu His
115 120 125

Thr Asp Leu Tyr Lys Phe Leu Thr Lys Arg Gly Glu Lys Met Thr
130 135 140

<210> 5150

<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5150
Ala Leu Leu Cys Arg Ser Ser Ser Tyr Ile Gly Pro Phe Lys Lys Leu
1 5 10 15

Pro Ala Glu Ile Pro Gly Val Ile Cys Leu Glu His Xaa Pro Leu Thr
20 25 30

Ser Ser Thr His Leu Leu Ala Ala Pro Arg His Ser Ser Asn Leu Ile
35 40 45

Leu Asn Val Ile Ser Leu Lys Lys Pro Phe Leu Thr Gln Ser Lys Ile
50 55 60

Ser Thr Phe Gly Tyr Ser Leu Ser Gln His Leu Asp Phe Phe Pro Ser
65 70 75 80

<210> 5151
<211> 29
<212> PRT
<213> Homo sapiens

<400> 5151
Ser Phe Cys Leu Tyr Lys Ser Thr Cys Ser Cys Ala Asn Pro Ser Val
1 5 10 15

Asp Ser Trp Gln His Glu Ser Leu Ile Pro Gly Tyr Asn
20 25

<210> 5152
<211> 181
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5152
Val Ser Pro Ser Pro Pro Trp Thr Pro Pro Gly Ala Asp Arg Pro Met
1 5 10 15

Glu Ser Gln Gly Val Pro Pro Gly Pro Tyr Arg Ala Thr Lys Leu Trp
20 25 30

Asn Glu Val Thr Thr Ser Phe Arg Ala Gly Met Pro Leu Arg Lys His
35 40 45

Arg Gln His Phe Lys Lys Tyr Gly Asn Cys Phe Thr Ala Gly Glu Ala
50 55 60

Val Asp Trp Leu Tyr Asp Leu Leu Arg Asn Asn Ser Asn Phe Gly Pro
65 70 75 80

Glu Val Thr Arg Gln Gln Thr Ile Gln Leu Leu Arg Lys Phe Leu Lys
85 90 95

Asn His Val Ile Glu Asp Ile Lys Gly Arg Trp Gly Ser Glu Asn Val
100 105 110

Asp Asp Asn Asn Gln Leu Phe Arg Phe Pro Ala Thr Ser Pro Leu Lys
115 120 125

Thr Leu Pro Arg Arg Tyr Pro Glu Leu Arg Lys Asn Asn Ile Glu Asn
130 135 140

Phe Ser Lys Asp Lys Asp Ser Ile Phe Lys Leu Arg Asn Leu Ser Arg
145 150 155 160

Arg Thr Pro Lys Arg His Gly Leu His Leu Ser Xaa Glu Asn Gly Glu
165 170 175

Lys Ile Asn Met Lys
180

<210> 5153
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5153
Asn Lys Tyr Asn Met Tyr Ile Pro Asp Leu Leu Ser Ile Leu Tyr Lys
1 5 10 15

Val Ala Met Thr Lys Gly Ala Asn Lys Tyr Tyr Ile Ile Tyr Leu Ala
20 25 30

Phe Leu Leu His Glu Met Met Trp Val Xaa
35 40

<210> 5154
<211> 131
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5154
Glu Val Gly Phe Ser Leu Pro Ser Pro Gly Pro Val Cys Pro Tyr Pro
1 5 10 15

Arg Pro Ala Ser Cys Ala Gln Ile Leu Phe Cys Leu Trp Lys Leu Leu
20 25 30

Asp His Pro Arg Ser Ala Ala Cys Pro Asp Pro Tyr Pro Arg Ala Ser
35 40 45

Leu Ser Ser Trp Glu Ala Gly Gln Ala Pro Val Arg Phe Arg Cys Ala
50 55 60

Leu Cys Leu Ser Leu Asp Ser Arg Ala Asp Glu Pro Gln His His His
65 70 75 80

Pro Ala Thr Tyr Lys Val Gly Asp Leu Gly Leu Gly Ser Gln Ala Gln
85 90 95

Thr Gly Gly Pro His Ser Pro Leu Gly Pro Leu Pro Thr Pro Val Pro
100 105 110

Ser Val Pro Gln Ser Gly Gly Ala Ser Arg Ala Ile Ser Asp Xaa Ala
115 120 125

Gly Pro Arg
130

<210> 5155
<211> 65
<212> PRT
<213> Homo sapiens

<400> 5155
Ala Lys Pro Leu Lys Leu Lys His Ile Ser Tyr Leu Lys His Leu Gly
1 5 10 15

Asn Thr Thr Val Lys Tyr Leu Ser Asn Ile Gln Tyr Met Glu Phe Ile
20 25 30

Pro Thr Phe Val Cys Ile Ser Ile Cys Lys Leu Leu Leu Arg Arg Ile
35 40 45

Glu Ser Leu Asp Tyr Phe Arg Ile Gln Leu Leu Gln Phe Ser Ile Val
50 55 60

Asp
65

<210> 5156
<211> 31
<212> PRT
<213> Homo sapiens

<400> 5156
Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Arg Pro Trp Tyr
1 5 10 15

His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe Phe Arg
20 25 30

<210> 5157
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5157
Ala Asp Ala Trp Ala Arg Ser Phe Leu Val Asp Ser Leu Val Leu Arg
1 5 10 15

Glu Ala Gly Glu Lys Lys Ala Pro Glu Gly Ser Pro Pro Pro Leu Phe
20 25 30

Pro Tyr Ala Val Pro Pro Pro His Ala Leu His Gly Leu Ser Pro Gly
35 40 45

Ala Cys His Ala Arg Lys Ala Gly Leu Leu Cys Val Cys Pro Leu Cys
50 55 60

Val Thr Ala Ser Gln Xaa His Gly Pro Pro Gly Pro Pro Arg Cys Leu
65 70 75 80

Tyr Ser Arg Leu Pro Ser His Pro Ser Ala Arg Ser Thr Ala Arg Ala
85 90 95

Pro Gly Pro Xaa Ala Leu Cys Xaa Val Ala Arg Gly
100 105

<210> 5158
<211> 438
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (299)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (397)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (413)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (428)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5158
Glu Ala Gln Ala Tyr Thr Ala Tyr Leu Ser Gly Met Leu Arg Phe Glu
1 5 10 15

His Gln Glu Trp Lys Ala Ala Ile Glu Ala Phe Asn Lys Cys Lys Thr
20 25 30

Ile Tyr Glu Lys Leu Ala Ser Ala Phe Thr Glu Glu Gln Ala Val Leu
35 40 45

Tyr Asn Gln Arg Val Glu Glu Ile Ser Pro Asn Ile Arg Tyr Cys Ala
50 55 60

Tyr Asn Ile Gly Asp Gln Ser Ala Ile Asn Glu Leu Met Gln Met Arg
65 70 75 80

Leu Arg Ser Gly Gly Thr Glu Gly Leu Leu Ala Glu Lys Leu Glu Ala
85 90 95

Leu Ile Thr Gln Thr Arg Ala Lys Gln Ala Ala Thr Met Ser Glu Val
100 105 110

Glu Trp Arg Gly Arg Thr Val Pro Val Lys Ile Asp Lys Val Arg Ile
115 120 125

Phe Leu Leu Gly Leu Ala Asp Asn Glu Ala Ala Ile Val Gln Ala Glu
130 135 140

Ser Glu Glu Thr Lys Glu Arg Leu Phe Glu Ser Met Leu Ser Glu Cys
145 150 155 160

Arg Asp Ala Ile Gln Val Val Arg Glu Glu Leu Lys Pro Asp Gln Lys
165 170 175

Gln Arg Asp Tyr Ile Leu Glu Gly Glu Pro Gly Lys Val Ser Asn Leu
180 185 190

Gln Tyr Leu His Ser Tyr Leu Thr Tyr Ile Lys Leu Ser Thr Ala Ile
195 200 205

Lys Arg Asn Glu Asn Met Ala Lys Gly Leu Gln Arg Ala Leu Leu Gln
210 215 220

Gln Gln Pro Glu Asp Asp Ser Lys Arg Ser Pro Arg Pro Gln Asp Leu
225 230 235 240

```
Ile Arg Leu Tyr Asp Ile Ile Leu Gln Asn Leu Val Glu Leu Leu Gln
                245                 250                 255

Leu Pro Gly Leu Glu Glu Asp Lys Ala Phe Gln Lys Glu Ile Gly Leu
            260                 265                 270

Lys Thr Leu Val Phe Lys Ala Tyr Arg Cys Phe Phe Ile Ala Gln Ser
        275                 280                 285

Tyr Val Leu Val Lys Lys Trp Ser Glu Ala Xaa Val Leu Tyr Asp Arg
    290                 295                 300

Val Leu Lys Tyr Ala Asn Glu Val Asn Ser Asp Ala Gly Ala Phe Lys
305                 310                 315                 320

Asn Ser Leu Lys Asp Leu Pro Asp Val Gln Glu Leu Ile Thr Gln Val
                325                 330                 335

Arg Ser Glu Lys Cys Ser Leu Gln Ala Ala Ala Ile Leu Asp Ala Asn
            340                 345                 350

Asp Ala His Gln Thr Glu Thr Ser Ser Ser Gln Val Lys Asp Asn Lys
        355                 360                 365

Pro Leu Val Glu Arg Phe Glu Thr Phe Cys Leu Gly Pro Phe Pro Cys
    370                 375                 380

Ser Pro Ser Lys Pro Thr Leu Trp His Phe Pro Pro Xaa Phe Gln Pro
385                 390                 395                 400

Phe Pro Trp Gln Gly Phe Cys Ser Leu Asp Trp Ala Xaa Lys Pro Cys
                405                 410                 415

Gly Leu Phe Pro Pro Leu Glu Gly Gln Val Trp Xaa Arg Lys Asp Gln
            420                 425                 430

Glu Trp Ala His Trp Val
        435
```

<210> 5159
<211> 275
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

180 185 190

Pro Arg Arg Met Arg Arg Ser Pro Leu Met Arg Leu Ile Lys Thr Leu
195 200 205

Pro Glu Ile Leu Pro Arg Glu Ala Ser Ser Glu Met Gly Arg Ser Ile
210 215 220

Gln Arg Ala Gln Gly Leu Ala Gly Ser Ala Gly Phe Asp Arg Ser Pro
225 230 235 240

Pro Arg Thr His Pro Pro Leu Glu Thr Arg Thr Pro Gln Thr Ala Leu
245 250 255

Thr Leu Arg Arg Pro Pro Glu His Xaa Leu Pro Thr Arg Leu Ala Trp
260 265 270

Ala Phe His
275

<210> 5160
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5160
Leu Asp Val Asn Phe Gly Asp Thr Val Gln His Thr Pro Pro Arg Ala
1 5 10 15

```
His Gly Asp Val Ile Arg Pro Leu Arg Lys Gln Val Glu Leu Leu Phe
 65                  70                  75                  80

Asn Thr Arg Tyr Ala Lys Ala Ile Gly Ile Ser Glu Pro Val Lys Val
                 85                  90                  95

Pro Tyr Ser Lys Phe Leu Met His Pro Glu Glu Leu Phe Val Val Gly
            100                 105                 110

Leu Pro Glu Gly Ile Ser Leu Arg Arg Pro Asn Cys Phe Gly Ile Ala
        115                 120                 125

Lys Leu Arg Lys Ile Leu Glu Ala Ser Asn Ser Ile Gln Phe Val Ile
    130                 135                 140

Lys Arg Pro Glu Leu Leu Thr Glu Glu Ser Lys Ser Pro Ser Trp Ile
145                 150                 155                 160

Val Asn Glu
```

<210> 5162
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5162

```
Lys Pro Thr Cys Asn Glu Leu Ile Lys Thr Ile Ile Ile Gln His Glu
  1               5                  10                  15

Asn Ile Phe Pro Ser Pro Arg Xaa Leu Glu Gly Pro Val Tyr Ser Arg
             20                  25                  30

Gly Gly Ser Met Glu Asp Tyr Cys Asp Ser Pro His Gly Glu Thr Thr
         35                  40                  45

Ser Val Glu Asp Ser Thr Gln Asp Val Thr Ala Glu His His Thr Ser
     50                  55                  60

Asp Asp Glu Cys Glu Pro Ile Glu Ala Ile Ala Lys Phe Asp Tyr Val
 65                  70                  75                  80

Gly Arg Thr Ala Arg Glu Leu Ser Phe Lys Lys Gly Ala Ser Leu Leu
```

```
                85                  90                  95

Leu Tyr Gln Arg Ala Ser Asp Asp Trp Trp Glu Gly Arg His Asn Gly
            100                 105                 110

Ile Asp Gly Leu Ile Pro His Gln Tyr Ile Val Val Gln Asp Thr Glu
        115                 120                 125

Asp Gly Val Val Glu Arg Ser Ser Pro Lys Ser Glu Ile Glu Val Ile
    130                 135                 140

Ser Glu Pro Pro Glu Glu Lys Val Thr Ala Arg Ala Gly Ala Ser Cys
145                 150                 155                 160

Pro Ser Gly Gly His Val Ala Arg Tyr Leu Ser Cys Lys His Gln Gln
                165                 170                 175

Ala Lys Glu Ala Ser Arg Ile Trp Glu Ala Ser Glu Asn Phe Ser Glu
            180                 185                 190
```

<210> 5163
<211> 319
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5163

```
Ala Arg Ala Arg Ala Glu Phe Gly Thr Ser Ser Thr Asn Leu His Leu
  1               5                  10                  15

Glu Ser Glu Leu Asp Ala Leu Ala Ser Leu Glu Asn His Val Lys Thr
            20                  25                  30
```

```
Glu Pro Ala Asp Met Asn Glu Ser Cys Lys Gln Ser Gly Xaa Ser Ser
         35                  40                  45

Leu Val Asn Gly Xaa Ser Pro Ile Arg Ser Leu Met His Arg Ser Ala
     50                  55                  60

Arg Ile Gly Gly Xaa Gly Asn Asn Lys Asp Asp Asp Pro Asn Glu Asp
 65                  70                  75                  80

Trp Cys Ala Val Cys Gln Asn Gly Gly Asp Leu Leu Cys Cys Glu Lys
                 85                  90                  95

Cys Pro Lys Val Phe His Leu Thr Cys His Val Pro Thr Leu Leu Ser
            100                 105                 110

Phe Pro Ser Gly Asp Trp Ile Cys Thr Phe Cys Arg Asp Ile Gly Lys
        115                 120                 125

Pro Glu Val Glu Tyr Asp Cys Asp Asn Leu Gln His Ser Lys Lys Gly
    130                 135                 140

Lys Thr Ala Gln Gly Leu Ser Pro Val Asp Gln Arg Lys Cys Glu Arg
145                 150                 155                 160

Leu Leu Leu Tyr Leu Tyr Cys His Glu Leu Ser Ile Glu Phe Gln Glu
                165                 170                 175

Pro Val Pro Ala Ser Ile Pro Asn Tyr Tyr Lys Ile Ile Lys Lys Pro
            180                 185                 190

Met Asp Leu Ser Thr Val Lys Lys Lys Leu Gln Lys Lys His Ser Gln
        195                 200                 205

His Tyr Gln Ile Pro Asp Asp Phe Val Ala Asp Val Arg Leu Ile Phe
    210                 215                 220

Lys Asn Cys Glu Arg Phe Asn Glu Met Met Lys Val Val Gln Val Tyr
225                 230                 235                 240

Ala Asp Thr Gln Glu Ile Asn Leu Lys Ala Asp Ser Glu Val Ala Gln
                245                 250                 255

Ala Gly Lys Ala Val Ala Leu Tyr Phe Glu Asp Lys Leu Thr Glu Ile
            260                 265                 270

Tyr Ser Asp Arg Thr Phe Ala Pro Leu Pro Glu Phe Glu Gln Glu Glu
        275                 280                 285

Asp Asp Gly Glu Val Thr Glu Asp Ser Asp Glu Asp Phe Ile Gln Pro
    290                 295                 300
```

```
Arg Arg Lys Arg Leu Lys Ser Asp Glu Arg Pro Val His Ile Lys
305                 310                 315



<210> 5164
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5164
Arg Glu Gln Lys Leu Glu Leu His Arg Gly Xaa Gly Arg Ser Arg Thr
  1               5                  10                  15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Arg Thr Ser Gly Xaa
            20                  25                  30

Gly Asn Arg Ala Ala Asn Glu Glu Glu Thr Xaa Asn Lys Pro Lys Leu
         35                  40                  45

Asn Ile Gln Ile Lys Thr Leu Ala Asp Asp Val Arg Asp Arg Ile Thr
     50                  55                  60

Ser Phe Arg Lys Ser Thr Val Lys Lys Glu Lys Pro Leu Ile Gln His
 65                  70                  75                  80

Pro Ile Asp Ser Gln Val Ala Met Ser Glu Phe Pro Ala Ala Gln Pro
                85                  90                  95

Leu Tyr Asp Glu Arg Ser Leu Asn Leu Ser Glu Lys Glu Val Leu Asp
            100                 105                 110

Leu Phe Glu Lys Met Met Glu Asp Met Asn Leu Asn Glu Glu Lys Lys
        115                 120                 125
```

```
Ala Pro Leu Arg Asn Lys Asp Phe Thr Thr Lys Arg Glu Met Val Val
    130                 135                 140

Gln Tyr Ile Ser Ala Thr Ala Lys Ser Ile Val Gly Ser Lys Val Thr
145                 150                 155                 160

Gly Gly Leu Lys Asn Ser Lys His Glu Cys Thr Leu Ser Ser Gln Glu
                165                 170                 175

Tyr Val His Glu Leu Arg Ser Gly Ile Phe Arg
            180                 185
```

<210> 5165
<211> 266
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (223)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5165

```
Thr His Thr Gly Glu Lys Ser Tyr Val Cys Ser Val Cys Gly Arg Gly
  1               5                  10                  15

Phe Ser Leu Lys Ala Asn Leu Leu Arg His Gln Arg Thr His Ser Gly
             20                  25                  30

Glu Lys Pro Phe Leu Cys Lys Val Cys Gly Arg Gly Tyr Thr Ser Lys
         35                  40                  45

Ser Tyr Leu Thr Val His Glu Arg Thr His Thr Gly Glu Lys Pro Tyr
     50                  55                  60

Glu Cys Gln Glu Cys Gly Arg Arg Phe Asn Asp Lys Ser Ser Tyr Asn
 65                  70                  75                  80

Lys His Leu Lys Ala His Ser Gly Glu Lys Pro Phe Val Cys Lys Glu
                 85                  90                  95

Cys Gly Arg Gly Tyr Thr Asn Lys Ser Tyr Phe Val Val His Lys Arg
            100                 105                 110
```

```
Ile His Ser Gly Glu Lys Pro Tyr Arg Cys Gln Glu Cys Gly Arg Gly
        115                 120                 125

Phe Ser Asn Lys Ser His Leu Ile Thr His Gln Arg Thr His Ser Gly
    130                 135                 140

Glu Lys Pro Phe Ala Cys Arg Gln Cys Lys Gln Ser Phe Ser Val Lys
145                 150                 155                 160

Gly Ser Leu Leu Arg His Gln Arg Thr His Ser Gly Glu Lys Pro Phe
                165                 170                 175

Val Cys Lys Asp Cys Glu Arg Ser Phe Ser Gln Lys Ser Thr Leu Val
            180                 185                 190

Tyr His Gln Arg Thr His Ser Gly Glu Lys Pro Phe Val Cys Arg Xaa
        195                 200                 205

Met Trp Ala Arg Ile Tyr Ser Glu Val Asn Pro Trp Glu Thr Xaa Asp
    210                 215                 220

His Thr Leu Arg Gly Glu Ala Phe Cys Val Gln Gly Cys Gly Gln Ala
225                 230                 235                 240

Leu Ser Lys Ser Gln Leu His Phe His Gln Arg Thr His Ser Glu Glu
                245                 250                 255

Lys Pro Tyr Gly Cys Arg Glu Cys Gly Arg
            260                 265
```

<210> 5166
<211> 128
<212> PRT
<213> Homo sapiens

<400> 5166

```
Leu Phe Met Ser Leu Leu Glu Asp Thr Leu Ser Lys Gln Lys Asn Pro
  1               5                  10                  15

Asp Val Arg Asn Ile Val Gln Gln Gln Phe Cys Gly Glu Tyr Ala Tyr
             20                  25                  30

Val Thr Val Cys Asn Gln Cys Gly Arg Glu Ser Lys Leu Leu Ser Lys
         35                  40                  45

Phe Tyr Glu Leu Glu Leu Asn Ile Gln Gly His Lys Gln Leu Thr Asp
     50                  55                  60

Cys Ile Ser Glu Phe Leu Lys Glu Glu Lys Leu Glu Gly Asp Asn Arg
```

65 70 75 80

Tyr Phe Cys Glu Asn Cys Gln Ser Lys Gln Asn Ala Thr Arg Lys Ile
85 90 95

Arg Leu Leu Ser Leu Pro Cys Thr Leu Asn Leu Gln Leu Met Arg Phe
100 105 110

Val Phe Asp Arg Gln Thr Gly His Lys Lys Lys Leu Asn Thr Tyr Ile
115 120 125

<210> 5167
<211> 128
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5167
Ala Gly Gly Gln Arg Gly Gly Ala Glu Ser Glu Arg Gln His Leu Gln
1 5 10 15

Gln Arg Val Leu Gly Glu Leu Cys Ser Arg Asn Thr Gly Gly Asp Ala
20 25 30

Ala Gly Ala Gln Arg Glu Asn Ala Thr Arg Arg Thr Ala Gly Thr Leu
35 40 45

Ser Leu Glu Ala Ser Gln Ala Leu Lys Glu Lys Ala Glu Leu Gln Ala
50 55 60

Gln Leu Ala Ala Leu Ser Thr Lys Leu Gln Ala Gln Val Glu Cys Ser
65 70 75 80

```
His Ser Ser Gln Gln Arg Gln Asp Ser Leu Ser Ser Glu Val Asp Thr
                 85                  90                  95

Leu Lys Gln Ser Cys Trp Asp Xaa Glu Arg Ala Met Xaa Asp Leu Ala
            100                 105                 110

Glu His Ala Gly Xaa Lys Lys Cys Gln Leu Ala Ser Phe Gln Gln Arg
        115                 120                 125
```

<210> 5168
<211> 141
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5168

```
Asn Leu Thr Asn Val Met Tyr Val Thr Asn Pro Ser Gly Met Val Pro
  1               5                  10                  15

Pro Leu Leu Tyr Ile Lys Gly Phe Ile Pro Glu Lys Asn His Met Asn
             20                  25                  30

Val Met Phe Ala Glu Lys Pro Ser Ala Ile Met His His Ser Leu Asn
         35                  40                  45

Ile Lys Glu Tyr Ile Leu Glu Lys Ser Leu Leu Ser Lys Glu Cys Gly
     50                  55                  60

Lys Ala Phe Arg Gln Asn Ile His Leu Ala Ser His Leu Arg Ile His
 65                  70                  75                  80
```

Thr Gly Glu Lys Pro Phe Glu Cys Xaa Glu Cys Gly Lys Ser Phe Ser
85 90 95

Ile Ser Ser Gln Leu Ala Thr His Gln Arg Ile His Thr Xaa Glu Lys
100 105 110

Pro Tyr Glu Cys Lys Val Cys Ser Lys Ala Phe Thr Gln Lys Val Xaa
115 120 125

Leu His Ser Ser Glu Asn Pro Thr Gly Glu Glu Thr Leu
130 135 140

<210> 5169
<211> 60
<212> PRT
<213> Homo sapiens

<400> 5169
Met Arg Ser His Cys Pro Lys Leu Trp Pro Phe Leu Cys Tyr Lys His
1 5 10 15

Ala Phe Leu Ser Tyr Lys Val Asn Gln Thr Ile Cys Asn Thr Val Leu
20 25 30

Gly Cys Asn Leu Cys Phe Cys Ser Thr Val Lys Ile Glu Asn Tyr Val
35 40 45

Val Cys Thr Val Leu Ile Lys Ile Leu Asp Phe Tyr
50 55 60

<210> 5170
<211> 154
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5170
Gln Leu Thr Thr Val Arg Arg Leu Leu Ser Glu Lys Ala Thr His Val
1 5 10 15

Asn Thr Arg Asp Glu Asp Glu Xaa Thr Pro Leu His Arg Ala Ala Tyr
20 25 30

```
Ser Gly His Leu Asp Ile Val Gln Glu Leu Ile Ala Gln Gly Ala Asp
         35                  40                  45

Val His Ala Val Thr Val Asp Gly Trp Thr Pro Leu His Ser Ala Cys
     50                  55                  60

Lys Trp Asn Asn Thr Arg Val Ala Ser Phe Leu Leu Gln His Asp Ala
 65                  70                  75                  80

Asp Ile Asn Ala Gln Thr Lys Gly Leu Leu Thr Pro Leu His Leu Ala
                 85                  90                  95

Ala Gly Asn Arg Asp Ser Lys Asp Thr Leu Glu Leu Leu Leu Met Asn
            100                 105                 110

Arg Tyr Val Lys Pro Gly Leu Lys Asn Asn Leu Glu Glu Thr Ala Phe
        115                 120                 125

Asp Ile Ala Arg Arg Thr Ser Ile Tyr His Tyr Leu Phe Glu Ile Val
    130                 135                 140

Glu Gly Cys Thr Asn Ser Ser Pro Gln Ser
145                 150
```

<210> 5171
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5171
Thr Xaa Gly Leu Xaa Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro
1 5 10 15

Gly Arg Pro Thr Arg Pro Xaa Lys Xaa Met Glu Lys Asp Pro Ser Arg
20 25 30

Leu Leu Leu Trp Ala Ala Glu Lys Asn Arg Val Lys Lys Lys Ile Thr
35 40 45

Glu Gly Ser Val Thr Val Gly Lys Ala Leu Gly Ser Ser Gln Lys Thr
50 55 60

Cys Leu Tyr Cys Tyr Gly His His Thr Tyr Leu Leu Ile Val Arg Thr
65 70 75 80

Lys

<210> 5172
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5172
Met Cys Thr Arg Ser Leu Thr Ala Leu Ser Glu Pro Arg Thr Pro Gly
1 5 10 15

Pro Pro Gly Leu Thr Thr Thr Pro Ala Pro Pro Asp Lys Leu Gly Gly
20 25 30

Lys Gln Arg Ala Ala Phe Lys Ser Gly Lys Arg Val Gly Lys Pro Ser
35 40 45

Pro Lys Ala Ala
50

<210> 5173
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

Phe Leu Leu Lys Asn Phe Pro Gly Asp Asp His Ser Ala Trp Ser Leu
65 70 75 80

Gly Trp Ser Leu Val
85

<210> 5175
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5175
Ser Gln Val Met Gly Thr Glu Arg Phe Ile Val Leu Phe Leu Phe Leu
1 5 10 15

Leu Tyr Gly Ser Ser Gln Ser Phe Asn Ser Met Ala Gln Val Thr Gln
20 25 30

Ser Arg Val Leu Arg Ala Cys Gly Leu Trp Gln His His Pro Gln Thr
35 40 45

Asp Thr Ala Glu Glu Pro Gly Ala Val Ser Cys Arg Cys Ala Trp Leu
50 55 60

Gly Thr Glu Trp Lys Ala Leu Gly Arg Ile Phe Ile Glu Val
65 70 75

<210> 5176
<211> 132
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5176
Leu Ser Thr Lys Ile Tyr Arg Ser Xaa Ser Ala Met Tyr Ser Arg Thr
1 5 10 15

Cys Gln Arg Asn Ser Lys Val Phe Ala Thr Val Ser Ser Pro Ala Ala
20 25 30

Ile Xaa Asp Asn Ser Pro Ala Xaa Xaa Asn Val Val Glu Thr Asn Pro
35 40 45

Phe Lys His Leu Thr His Leu Ser Leu Lys Leu Leu Pro Gly Asn Asp
50 55 60

Val Glu Ile Lys Lys Phe Leu Ala Gly Cys Leu Lys Cys Ser Lys Glu
65 70 75 80

Glu Lys Leu Ser Leu Met Gln Ser Leu Asp Asp Ala Thr Lys Gln Leu
85 90 95

Asp Phe Thr Arg Lys Thr Leu Ala Glu Lys Lys Gln Glu Leu Asp Lys
100 105 110

Leu Arg Asn Glu Trp Ala Ser His Thr Ala Ala Leu Thr Asn Lys His
115 120 125

Ser Gln Glu Leu
130

<210> 5177
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5177
Pro Ala Gln Leu Leu Tyr Glu Leu Ala Lys Leu Ala Gln Val Asn Val
1 5 10 15

Glu Phe Ser Ala Arg Gln Leu Leu Ile Arg Thr Gly Arg Asp Gly Ser

```
            20                  25                  30

Tyr Thr Thr Thr Gly Asp Asn Ser Arg Leu Cys Arg Lys Phe Gln Asp
        35                  40                  45

Leu Gly Ser Arg Thr Met His Asp Thr Gln Ser Xaa Ile Ala Gly Gly
    50                  55                  60

Arg Ala Thr Val Lys Arg Pro Lys Ser Ile Lys Met Cys
65                  70                  75
```

<210> 5178
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5178

```
Phe Gly Thr Ser Arg Arg Arg Xaa Ala Lys Xaa Thr Leu Tyr Cys Arg
  1               5                  10                  15

Val Phe Leu Leu Asp Gly Thr Glu Val Ser Val Asp Leu Pro Lys His
            20                  25                  30

Ala Lys Gly Gln Asp Leu Phe Asp Gln Ile Val Tyr His Leu Asp Leu
        35                  40                  45

Val Glu Thr Asp Tyr Phe Gly Leu Gln Phe Leu Asp Ser Ala Gln Val
    50                  55                  60

Ala His Trp Leu Asp His Ala Lys Pro Ile Lys Lys Gln Met Lys Ile
65                  70                  75                  80

Gly Pro Ala Tyr Ala Leu His Phe Arg Val Lys Tyr Tyr Ser Ser Glu
                85                  90                  95

Pro Asn Asn Leu Arg Glu Glu Phe Thr Arg Tyr Leu Phe Val Leu Gln
            100                 105                 110

Leu Arg His Asp Ile Leu Ser Gly Lys Leu Lys Cys Pro Tyr Glu Thr
```

115 120 125

Ala Val Glu Leu Ala Ala Leu Cys Leu Gln Ala Asp Phe Val
130 135 140

<210> 5179
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5179
Arg Arg His Leu Glu Ile Lys Xaa Leu Ile Met Leu Gln Tyr Cys Ile
1 5 10 15

Tyr Phe Ser Leu Tyr Thr Val Phe Phe Phe Val Ser Pro Glu Thr Ser
20 25 30

Phe Pro Phe Arg Phe Phe Ser Cys Ser Ile Lys Leu Ile Tyr Ile Ser
35 40 45

Thr Tyr Ser Asn Gly Val Leu Val Phe Val Ser
50 55

<210> 5180
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5180
Leu Pro Leu Arg Asn Lys Ile Leu Met Leu Ser Phe Asp Leu Arg Val
1 5 10 15

Gly Gly Leu Gly Pro Lys Ala Asp Arg Leu Glu Glu Leu Val Glu Glu
20 25 30

Leu Glu Ala Ala Pro Cys Cys Pro Leu Leu Glu Val Gly Ser Val Leu
35 40 45

Asp Leu Leu Val Gln Leu Ala Gly Ser Gly Pro Pro Gln Val Leu Pro
50 55 60

Arg Lys Arg Asp Tyr Phe Leu Asn Asn Lys His Val Gly Arg Asn Val
65 70 75 80

Pro Tyr Ser Gly Tyr Asp Cys Asp Asp Leu Xaa Val Phe Glu Met Asp
85 90 95

Val Gln Ser Leu Ile Xaa Arg Xaa Glu
100 105

<210> 5181
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (196)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5181

```
Val Lys Ile Asn Arg Lys Thr Ala Phe Gly Thr Thr Thr Leu Val Leu
 1               5                  10                  15

Thr Asp Phe Ser Asn Lys Ser Ser Thr Leu Glu Arg Lys Thr Lys Gln
            20                  25                  30

Asn Gln Ile Leu Asp Glu Glu Phe Gln Asn Ser Pro Pro Ala Ser Val
        35                  40                  45

Cys Leu Asn Asp Ile Gln Xaa Pro Ser Lys Lys Thr Thr Asn Asp Ile
    50                  55                  60

Thr Gln Leu Xaa Ser Ile Val Asn Ile Ser Pro Thr Ile Ser Ser Glu
65                  70                  75                  80

Ser Lys Leu Phe Ser Pro Ala His Lys Lys Pro Lys Thr Ala His Tyr
                85                  90                  95

Ser Ser Pro Glu Leu Lys Ser Cys Asn Pro Gly Tyr Ser Asn Ser Glu
            100                 105                 110

Leu Gln Ile Asn Met Thr Asp Gly Pro Arg Thr Leu Asn Pro Asp Ser
        115                 120                 125

Pro Arg Cys Ser Lys His Asn Arg Leu Cys Ile Leu Arg Val Val Arg
    130                 135                 140

Lys Asp Gly Glu Asn Lys Gly Arg Ala Val Leu Cys Leu Ser Ser Tyr
145                 150                 155                 160

Leu Gly Gly Arg His Asn Val Gly Phe Phe Trp Asn Gly Ala Asp Phe
                165                 170                 175

Val Pro Phe Pro Phe Trp Gln Pro Gly Ala Arg Arg Phe Pro Pro Trp
            180                 185                 190

Lys Thr Val Xaa Gly Arg Phe Gly Thr Leu Thr Leu Gly Lys Gly Phe
        195                 200                 205

Phe Phe Cys Cys Gly Xaa Leu Trp Gly
    210                 215
```

<210> 5182
<211> 150
<212> PRT
<213> Homo sapiens

<400> 5182
Asn Ile Pro Gly Ser Gly His His Ala Phe Cys Lys Pro Pro Trp Gly

```
  1               5                  10                  15

Ala Ala Glu Leu Asp Met Gly Arg Arg Asp Ala Gln Leu Leu Ala Ala
             20                  25                  30

Leu Leu Val Leu Gly Leu Cys Ala Leu Ala Gly Ser Glu Lys Pro Ser
         35                  40                  45

Pro Cys Gln Cys Ser Arg Leu Ser Pro His Asn Arg Thr Asn Cys Gly
     50                  55                  60

Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Asp Asn Gly Cys Cys Phe
 65                  70                  75                  80

Asp Ser Ser Val Thr Gly Val Pro Trp Cys Phe His Pro Leu Pro Lys
                 85                  90                  95

Gln Glu Ser Asp Gln Cys Val Met Glu Val Ser Asp Arg Arg Asn Cys
            100                 105                 110

Gly Tyr Pro Gly Ile Ser Pro Glu Glu Cys Ala Ser Arg Lys Cys Cys
        115                 120                 125

Phe Ser Asn Phe Ile Phe Glu Val Pro Trp Cys Phe Phe Pro Lys Ser
    130                 135                 140

Val Glu Asp Cys His Tyr
145                 150
```

<210> 5183
<211> 60
<212> PRT
<213> Homo sapiens

<400> 5183

```
Asn Ser Met Thr Lys Gly Leu Ile Gln Gly Glu Lys Gly Tyr Met Lys
  1               5                  10                  15

Thr His Ser Ser Leu Phe Tyr Ser Leu Pro Trp Leu Glu Ile Asn Arg
             20                  25                  30

His Ile Val Leu Phe Ile Met Gly Arg Lys Val Gly Lys Asp His Leu
         35                  40                  45

Ser Ala Tyr Gly Val Leu Ala Leu Ala His Gly Glu
     50                  55                  60
```

<210> 5184
<211> 60
<212> PRT
<213> Homo sapiens

<400> 5184
Leu Ala Ile Asp Ser Thr Gly Leu Lys His Thr Ile Lys Cys Ile His
1 5 10 15

Asp Ile Val His Thr Gln Lys Pro Pro Leu Ile Ile Glu Ile Thr Cys
20 25 30

Ile Leu Phe Gly Asn His Leu Ser Leu Val Leu Lys Tyr Tyr Ile Phe
35 40 45

Cys Ala Ser Met Tyr Phe Ser Ile Tyr Lys Pro Met
50 55 60

<210> 5185
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5185
Leu Gln Phe Ile Lys Leu Ile Thr Arg Gln Asn Tyr Ile Phe Lys Met
1 5 10 15

Ser Lys Gly Leu Asn His Glu Lys Asn Ser Ser Thr Leu Leu Pro Asn
20 25 30

Tyr Cys Phe Gln Asp Ser Gln Ser Met Leu Tyr Ile His Leu Tyr Phe
35 40 45

Ser Leu Tyr Ile
50

<210> 5186
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5186

```
Tyr Cys Tyr Ser Arg Thr Val Leu Ile Val Cys Ile Leu Lys Arg Cys
 1               5                  10                  15

Asp Ser Gly Leu Ile Phe Ile Ser Val Ile Leu Lys Gly Trp Val Trp
            20                  25                  30

Phe Tyr Arg Val Phe Cys Ile Leu Val Gly Ile His Lys Tyr Gln Met
        35                  40                  45

Cys Cys Ile Ile Lys Ile Thr Leu Thr Phe Xaa Lys Lys Lys Lys Lys
    50                  55                  60

Lys Lys Lys Lys Lys
65
```

<210> 5187
<211> 123
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5187

```
His Glu Leu Thr Arg Asn Gly Gly Gly Gly Gly Ala Ala Leu Gly Gly
 1               5                  10                  15
```

Glu Glu Gly Ala Ala Thr Arg Pro Arg Ala Ala Pro Gly Pro Gly Leu
20 25 30

Arg Met Glu Pro Phe Arg Arg Arg Leu Tyr Ala Gly Pro Gln Arg Arg
35 40 45

Pro Thr Arg Ala Asp Pro Arg His Pro Arg Phe Lys Glu Pro Ser Pro
50 55 60

Gly Leu Gly Pro Trp Pro Leu Thr Arg Gln Gly Thr Ala Leu Gly Gly
65 70 75 80

Leu Val Cys Arg Gly Xaa Pro Ala Ala Xaa Xaa His Gly Tyr Leu Ala
85 90 95

Lys Lys Leu His Ser Pro Ser Asp Gln Phe Pro Pro Arg Ala Lys Asn
100 105 110

Pro Glu Leu Glu Xaa Asn Ser Leu Xaa Phe Leu
115 120

<210> 5188
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5188
Lys Cys Tyr Ile Leu Leu Gly Tyr Arg Gly Ala Gly Glu Thr Ala Glu
1 5 10 15

Glu Arg Lys Asn Met Trp Lys Thr Pro Arg Ser Ser Lys Phe Tyr Pro
20 25 30

Glu Phe Tyr Leu Pro Cys Met Phe Cys Leu Arg His Phe Ser Cys Asp
35 40 45

Ile Arg Lys Ala Ile Ser Lys Gly Xaa Phe Phe Val Ala Lys Ile Tyr
50 55 60

Phe Thr Leu
65

<210> 5189
<211> 57
<212> PRT
<213> Homo sapiens

<400> 5189
Pro Leu Pro Asn Ser Pro Ala Tyr Phe Tyr Ala Thr Phe Pro Phe Thr
1 5 10 15

Leu Tyr Ser Leu Ala Ile Phe Asp Ser Ser His Phe Leu Thr Pro Val
20 25 30

Phe Ser Gln Tyr Asn Val His Thr Phe Ile Thr Leu Ile Pro Leu Tyr
35 40 45

Cys Ile Leu Trp Phe Ala Phe Pro His
50 55

<210> 5190
<211> 35
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5190
Leu Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu
1 5 10 15

Arg Pro Pro Pro Arg Trp Ser Ser Ser Phe Val Pro Leu Val Arg Xaa
20 25 30

Gly Val Ala
35

<210> 5191
<211> 19
<212> PRT
<213> Homo sapiens

<400> 5191
Leu Ile Lys Leu Thr Ser Lys Gln Met Ile Thr Ile His Asn Thr Lys
1 5 10 15

Gly Arg Thr

<210> 5192
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5192
Ile Phe Leu Glu Gly Phe His Glu Ile Ser Pro Ser His Ile Ser Ser
1 5 10 15

Val Gln Tyr Lys Met Gln Lys Cys Leu Leu Xaa Lys Thr Gly Asp Leu
20 25 30

Ile Thr Thr Thr Leu Gly Ile Ser Gln Leu Pro Leu Gly Thr Gln Pro
35 40 45

Pro Xaa Val Glu Thr Cys Leu Asp Trp His Ser Gly Ser Thr
50 55 60

<210> 5193
<211> 326
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (174)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (273)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (281)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5193

```
Leu Pro Gln Arg Cys His Gly Val Leu Arg Arg Arg Lys Asp Trp Asn
  1               5                  10                  15

Val Arg Leu Gln Ala Phe Phe Thr Ser Asp Thr Gly Leu Glu Tyr Glu
             20                  25                  30

Ala Pro Lys Leu Tyr Pro Ala Ile Pro Ala Ala Arg Arg Arg Pro Ile
         35                  40                  45

Arg Val Leu Ser Leu Phe Asp Gly Ile Ala Thr Gly Tyr Leu Val Leu
     50                  55                  60

Lys Glu Leu Gly Ile Lys Val Gly Lys Tyr Val Ala Ser Glu Val Cys
 65                  70                  75                  80

Glu Glu Ser Ile Ala Val Gly Thr Val Lys His Glu Gly Asn Ile Lys
                 85                  90                  95

Tyr Val Asn Asp Val Arg Asn Ile Thr Lys Lys Asn Ile Glu Glu Trp
            100                 105                 110

Gly Pro Phe Asp Leu Val Ile Gly Gly Ser Pro Cys Asn Asp Leu Ser
        115                 120                 125

Asn Val Asn Pro Ala Arg Lys Gly Leu Tyr Glu Gly Thr Gly Arg Leu
    130                 135                 140

Phe Phe Glu Phe Tyr His Leu Leu Asn Tyr Ser Arg Pro Lys Glu Gly
145                 150                 155                 160

Asp Asp Arg Pro Phe Phe Trp Met Xaa Glu Asn Val Xaa Xaa Met Lys
```

```
                165                 170                 175

Val Gly Asp Lys Arg Asp Ile Ser Arg Phe Leu Glu Cys Asn Pro Val
            180                 185                 190

Met Ile Asp Ala Ile Lys Val Ser Ala Ala His Arg Ala Arg Tyr Phe
        195                 200                 205

Trp Gly Asn Leu Pro Gly Met Asn Arg Pro Val Ile Ala Ser Lys Asn
    210                 215                 220

Asp Lys Leu Xaa Leu Gln Asp Cys Leu Glu Tyr Asn Arg Ile Ala Lys
225                 230                 235                 240

Leu Lys Lys Val Gln Thr Ile Thr Thr Lys Ser Asn Ser Ile Lys Gln
                245                 250                 255

Gly Lys Asn Gln Leu Phe Pro Val Val Met Asn Gly Lys Glu Asp Val
            260                 265                 270

Xaa Trp Cys Thr Glu Leu Glu Arg Xaa Phe Gly Phe Pro Val His Tyr
        275                 280                 285

Thr Asp Val Ser Asn Met Gly Arg Gly Ala Arg Gln Lys Leu Leu Gly
    290                 295                 300

Arg Ser Trp Ser Val Pro Val Ile Arg His Leu Phe Ala Pro Leu Lys
305                 310                 315                 320

Asp Tyr Phe Ala Cys Glu
                325
```

<210> 5194
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5194

```
Gly His Leu Pro Ser Leu Ile Leu Ser Leu Gln Leu Leu Gly Gln Leu
  1               5                  10                  15

Ser Leu Pro Gln Arg Leu Phe Phe Cys Leu Ser Pro Phe Gly Ile Ser
            20                  25                  30

His Leu Glu Gly Ile Cys Lys Gly His Ser Val Leu Glu Gln Gly Asn
        35                  40                  45

Val Ala Ser Ser Ala Gln Thr Ser Leu Ser His Leu Gln Leu Arg Leu
    50                  55                  60
```

Gly Met Arg Gly Thr Asp Leu Ala Leu Thr Pro Gly Arg Phe
65 70 75

<210> 5195
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5195
Xaa Xaa Pro Ser Leu Xaa Glu Gln Ser Trp Xaa Ser Thr Ala Val Ala
1 5 10 15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
20 25 30

Ala Glu Leu Asp Ile Phe Phe Lys Asn Lys Ile Arg Cys Gln Pro Ser
35 40 45

Lys Met Phe Leu
50

<210> 5196
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5196
Val Ile Phe Leu Ala Ser Gly Asn Asp Gly Gly Ala Leu Thr Arg Val
1 5 10 15

Tyr Cys Gly Met Leu Leu Leu Lys Xaa Arg Arg Glu Leu Ala Arg Arg
20 25 30

Arg Gly Ser Arg Leu
35

<210> 5197
<211> 66
<212> PRT
<213> Homo sapiens

<400> 5197
Asp Ala Asp His Leu Leu Gln Asn Ser Tyr Leu Glu Gln Phe Lys Leu
1 5 10 15

Leu Val Pro Val Asn Lys Asn Thr Asp Gln Asn Ala Leu His Val Ala
20 25 30

Tyr Thr Val Gly Ser Leu His Ala Val Leu Asp Met Phe Ile Ser Thr
35 40 45

Leu Asn Ala Met Lys Cys Phe Ile Asn Lys Lys Pro Leu Tyr Ile Lys
50 55 60

Leu Leu
65

<210> 5198
<211> 38
<212> PRT
<213> Homo sapiens

<400> 5198
Cys Glu Ala Cys Thr Gly Lys Ala Pro Arg Ser Gly Gly Ile Pro Glu
1 5 10 15

Glu Met Pro Glu Leu Lys Asp Cys Gly Trp Gly Lys Arg Ser Pro Ser
20 25 30

```
Lys Glu Ala Val Cys Gly
         35



<210> 5199
<211> 102
<212> PRT
<213> Homo sapiens

<400> 5199
Asp Val Glu Ile Val Pro Val Leu Gly Asn Tyr Phe Pro Leu Pro Gly
  1               5                  10                  15

Tyr Gly Lys Glu Asp Val Ile Val Asn Asn Ile His His Pro Val Phe
            20                  25                  30

Asn Val Leu Gln Gln Cys Ser Asn Leu Phe Phe Ser Phe Val Pro Thr
         35                  40                  45

Ala Phe Val Tyr Ile Glu Asn Leu Lys Ile Ser Pro Ser Leu Leu Glu
     50                  55                  60

Val Lys Met Phe Pro Asn Leu Leu Asn Met Pro Leu Phe Thr Ile Cys
 65                  70                  75                  80

Phe Phe Arg Leu Phe Leu Met His Tyr Arg Ile Lys Tyr Asp Phe Val
                 85                  90                  95

Tyr Phe Tyr Tyr Ser Met
            100



<210> 5200
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5200
Phe Leu His His Lys Leu Tyr Leu Asn Val Gly Ala Val Ser Gly Cys
  1               5                  10                  15

Phe Leu Pro His Gly Glu Thr Trp Ser Ala Val Arg Glu Lys Asn Glu
            20                  25                  30

Ala Met Met Lys Ala Lys Ser Arg Lys Ser Pro Asp Cys Val Pro Val
         35                  40                  45

Pro Gly Ser Ser Gly Leu His Val Gln Val His Leu Cys Pro Phe His
```

50 55 60

Val Leu Ile Val Glu Phe Phe Cys Glu Ile Leu Gln Ile Ser
65 70 75

<210> 5201
<211> 26
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5201
Ala His Xaa Ser Ala Arg His Ser Cys Pro Gly Asn Val Ala Ala Arg
1 5 10 15

Asn Trp Trp Val Ser Asn Asn Ile Leu Trp
20 25

<210> 5202
<211> 303
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (257)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5202
Val Asn Glu Ile Met Ile Leu Glu Gly Gly Gly Val Met Asn Leu Asn
1 5 10 15

Pro Gly Asn Asn Leu Leu His Gln Pro Pro Ala Trp Thr Asp Ser Tyr
20 25 30

Ser Thr Cys Asn Val Ser Ser Gly Phe Phe Gly Gly Gln Trp His Glu
35 40 45

Ile His Pro Gln Tyr Trp Thr Lys Tyr Gln Val Trp Glu Trp Leu Gln
50 55 60

His Leu Leu Asp Thr Asn Gln Leu Asp Ala Asn Cys Ile Pro Phe Gln
65 70 75 80

```
Glu Phe Asp Ile Asn Gly Glu His Leu Cys Ser Met Ser Leu Gln Glu
                 85                  90                  95

Phe Thr Arg Ala Ala Gly Thr Ala Gly Gln Leu Leu Tyr Ser Asn Leu
            100                 105                 110

Gln His Leu Lys Trp Asn Gly Gln Cys Ser Ser Asp Leu Phe Gln Ser
        115                 120                 125

Thr His Asn Val Ile Val Lys Thr Glu Gln Thr Glu Pro Ser Ile Met
    130                 135                 140

Asn Thr Trp Lys Asp Glu Asn Tyr Leu Tyr Asp Thr Asn Tyr Gly Ser
145                 150                 155                 160

Thr Val Asp Leu Leu Asp Ser Lys Thr Phe Cys Arg Ala Gln Ile Ser
                165                 170                 175

Met Thr Thr Thr Ser His Leu Pro Val Glu Ser Pro Asp Met Lys Lys
            180                 185                 190

Glu Gln Asp Pro Pro Ala Lys Cys His Thr Lys Lys His Asn Pro Arg
        195                 200                 205

Gly Thr His Leu Trp Glu Phe Ile Arg Asp Ile Leu Leu Asn Pro Asp
    210                 215                 220

Lys Asn Pro Gly Leu Ile Lys Trp Glu Asp Arg Ser Glu Gly Val Phe
225                 230                 235                 240

Arg Phe Leu Lys Ser Glu Ala Val Ala Gln Leu Trp Gly Lys Lys Lys
                245                 250                 255

Xaa Asn Ser Ser Met Thr Tyr Glu Lys Leu Ser Arg Ala Met Arg Tyr
            260                 265                 270

Tyr Tyr Lys Arg Glu Ile Leu Glu Arg Val Asp Gly Arg Arg Leu Val
        275                 280                 285

Tyr Lys Phe Gly Lys Asn Ala Arg Gly Trp Arg Glu Asn Glu Asn
    290                 295                 300
```

<210> 5203
<211> 113
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5203
Arg Thr Ser Ile Leu Leu Lys Arg Ala Cys Arg Xaa Xaa Ser Leu Pro
1 5 10 15

Pro Thr Leu Ser His Leu Arg Leu His Leu Gln Leu Ala Pro Arg Ser
20 25 30

Cys Gly Asp Gly Ser Pro Trp Gln Pro Pro Ala Asp Leu Ser Gly Leu
35 40 45

Xaa Ile Glu Glu Val Ser Lys Ser Leu Arg Phe Ile Gly Leu Ser Glu
50 55 60

Asp Val Ile Ser Phe Phe Val Thr Glu Lys Ile Asp Gly Asn Leu Leu
65 70 75 80

Val Gln Leu Thr Glu Glu Ile Leu Ser Glu Asp Phe Lys Leu Ser Lys
85 90 95

Leu Gln Val Lys Lys Ile Met Gln Phe Ile Asn Gly Trp Arg Pro Lys
100 105 110

Ile

<210> 5204
<211> 46
<212> PRT
<213> Homo sapiens

<400> 5204
Lys Ser Pro Thr Met Phe Leu Asn Ser Lys Cys Lys Leu Ser Ala Arg
1 5 10 15

Val Asp Ile His Thr Ala Cys Phe His Met Trp His Phe Tyr Val Ser

20 25 30

Cys Trp Val Ile Val Leu Asp Trp Thr Val Lys Tyr Tyr Val
35 40 45

<210> 5205
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5205
Ala Pro Thr Met Ala Glu Thr Lys Leu Gln Leu Phe Val Lys Ala Ser
1 5 10 15

Glu Asp Gly Glu Ser Val Gly His Cys Pro Ser Tyr Leu Asp Ser Ala
20 25 30

Met Gln Glu Lys Glu Phe Lys Tyr Thr Cys Pro His Ser Ala Glu Ile
35 40 45

Leu Ala Ala Tyr Arg Pro Xaa Val His Pro Arg
50 55

<210> 5206
<211> 44
<212> PRT
<213> Homo sapiens

<400> 5206
Pro Gln Leu Ala Glu Lys Ala Ile Leu Lys Thr Phe Pro Thr Ala Tyr
1 5 10 15

Leu Cys Glu Val Asn Leu Leu Gln Gln Lys Ser Leu Asp Val Glu Ala
20 25 30

Ala Val Arg Ile Gln Leu Phe Ile Ile Thr Arg Tyr
35 40

<210> 5207
<211> 49

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5207
Asp Ser Lys Leu Glu Gly Phe Glu Glu Lys Glu Val Glu Val Phe Cys
1 5 10 15

Lys Arg Thr Leu Ile Leu Leu Leu Glu Ala Val Xaa Arg Ala Leu Arg
20 25 30

Val Glu Asn Xaa Ser Ala Leu Lys Gly Arg His Glu Lys Gln Gln His
35 40 45

Gln

<210> 5208
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5208
Lys Gln Lys Arg Val Pro Val Lys Trp Ile Lys Gln Thr Gly Lys Asp
1 5 10 15

Glu Ala Cys Xaa Ala Gly Gly Ala Glu Ser Gln Pro Ala Ser Ser Val
20 25 30

Val Ile Leu Leu Asn Leu Tyr Gln Ser Phe Gln Asn Arg Gly Gly Met
35 40 45

Asp Leu Pro Leu Cys Asp Ala Arg Ser Gln Arg Trp Asp Ser Val Ile
50 55 60

Gly Leu Cys
65

<210> 5209
<211> 103
<212> PRT
<213> Homo sapiens

<400> 5209
Arg Glu Lys His Arg Trp Val Ser Pro Arg His Ser Ser Leu Gln Arg
1 5 10 15

Cys Leu His Arg Ala Asn Pro Ala Phe Leu Lys Gly Ala Phe Pro His
20 25 30

Leu Met Cys Leu Ser Ala Ser Phe Phe Arg Gln Glu Phe Lys Ser Ile
35 40 45

Phe Lys Ile Asp Arg Phe Trp Cys Ser Phe Ala Ser Phe Arg Gly Arg
50 55 60

Leu Ser Pro Ala Ser Gly Ile His Pro His Val Gly Thr Arg Ser Ala
65 70 75 80

Ala Gly Ser His Val Tyr Glu Met Leu Val Val Phe Phe Phe Phe Ser
85 90 95

Phe Ile Leu Glu Val Phe Leu
100

<210> 5210
<211> 92
<212> PRT
<213> Homo sapiens

<400> 5210
Gly Arg Val Tyr Cys Leu Phe Lys Trp His Asn Phe Lys Gly Leu Arg
1 5 10 15

Val Gln Ser Leu Asn Leu Pro Arg Glu Gly Ala Pro Lys Leu Ser Ser
20 25 30

Pro His Thr Ser Gly Phe Leu Cys Gly Gly Gly Ala Gly Ile Ser Lys
35 40 45

Leu Trp Cys Glu Arg Val Gly Glu Met Leu Glu Val Gly Val Leu Cys
50 55 60

```
Ser Arg Pro Pro Ile Leu Ser Gln Cys Pro Leu Pro Pro Ser Ser Pro
 65                  70                  75                  80

Thr Pro Cys Pro Gln Phe Cys Gly Ala Ser Arg Leu
                 85                  90



<210> 5211
<211> 257
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5211
Gly Ala Val Gly Leu Gly Gly Gln Glu Leu Gln Tyr Gly His Gly Leu
  1               5                  10                  15

Ser Arg Leu Ser Thr Ser Ala Phe Arg Ala Tyr Gly Gln Gly Thr Leu
             20                  25                  30

Tyr Asp Ser Pro Leu Leu Gln Val Ser Ile His Leu Gly Tyr Gly Ile
         35                  40                  45

Tyr Arg Pro Val Ser Leu Gly Ser His Ala Leu Phe Pro Phe Leu Ser
     50                  55                  60

Trp Leu Asp Gln Pro Leu Trp Asp Gln His Pro Xaa His Thr Pro Pro
 65                  70                  75                  80

Asp Cys Ser Ser Ile Thr Arg Ile Ala Leu Tyr Phe Val Gln Lys Gly
                 85                  90                  95

Leu Ala Val Pro Cys Cys Phe His Leu Cys Lys Pro Ile Val Pro Leu
            100                 105                 110
```

```
Ala Ala Val Cys Val Arg Val His Val Cys Val Phe His Leu Xaa Ile
        115                 120                 125

His Cys Thr Arg Tyr Leu Xaa Ser Ala His Tyr Val Pro Gly Thr Val
    130                 135                 140

Ala Glu Phe Leu Trp Val Cys Leu Ser Met Pro Leu Leu Leu Leu Trp
145                 150                 155                 160

Gly Pro Leu Ser Val Leu Leu Phe Val Pro Lys Leu Leu Pro Leu Cys
                165                 170                 175

Gln Ser Gly Cys Leu Arg Phe Cys Val Ser Leu Cys Ala Phe Leu Ser
            180                 185                 190

Leu Ser Val Leu Val Ser Leu Gln Gly Pro Leu Phe Leu Ser Phe Leu
        195                 200                 205

Val Ser Val Leu Cys Pro Leu Cys Pro Leu Asp Ser Leu Gly Leu Cys
    210                 215                 220

Arg Pro Leu Val Cys Pro Gly Ser Ser Ala Phe Leu Thr Ser Ser Cys
225                 230                 235                 240

Pro Pro Leu His Ser Leu Leu Leu Cys Ser Arg Phe Pro Arg Ser His
                245                 250                 255

Phe
```

<210> 5212
<211> 73
<212> PRT
<213> Homo sapiens

```
<400> 5212
Ile Thr Cys Ser Asp Leu Ile Thr Phe Asp Lys Phe Glu Lys Phe Val
  1               5                  10                  15

Phe Gln Thr Glu Pro Val Ser Ile Asn Glu Glu Asn Glu Gly Phe Glu
             20                  25                  30

His Asn Thr Gln Val Arg Asn Gln Gly Ile Ile Ala Leu Ser Tyr Arg
         35                  40                  45

Asp Trp Glu Val Lys Leu Cys Leu Leu Pro Leu His Ser Ser Asp Ser
     50                  55                  60

Ala Phe Thr Cys Ser Lys Pro Ser Ala
```

65 70

<210> 5213
<211> 41
<212> PRT
<213> Homo sapiens

<400> 5213
Arg Leu Met Thr Ala Phe Leu Arg Ile Ala Asn Arg Gly Gln Arg Gly
1 5 10 15

Gly Ser Gln His Phe Gly Arg Pro Arg Arg Val Asp His Glu Val Arg
20 25 30

Ser Ser Arg Thr Ala Trp Pro Arg Trp
35 40

<210> 5214
<211> 79
<212> PRT
<213> Homo sapiens

<400> 5214
Met Leu Ile Asp Asp Glu Asn Leu Val Gly Cys Arg Ala Gln Phe Arg
1 5 10 15

Arg Ser Glu Leu Gly Val Gly Asp Arg Phe Gly Gly Gly Ile Ser Gln
20 25 30

Leu Phe Pro Pro Leu Asn Ser Glu Glu Cys Ser Tyr Ala Arg Ser Gln
35 40 45

Arg Arg Ala Thr Arg Ser Phe Cys Phe Gly Asp Asn Trp Ser Val Glu
50 55 60

Ser Pro Arg Ser Ser Phe Val Ala Phe Cys Ile Leu Leu Pro Gly
65 70 75

<210> 5215
<211> 290
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5215

```
Gln Ser Xaa Tyr Xaa Asn Ser Gly Gln Xaa Asp Ala Ala Arg Gly Thr
  1               5                  10                  15

Arg Val Gly Arg Val Arg Leu Trp Lys Arg Ala Ala Ala Ala His Asn
             20                  25                  30

Met His Ser Leu Ala Thr Ala Ala Pro Val Pro Thr Thr Leu Ala Gln
         35                  40                  45

Val Asp Arg Glu Lys Ile Tyr Gln Trp Ile Asn Glu Leu Ser Ser Pro
     50                  55                  60

Glu Thr Arg Glu Asn Ala Leu Leu Glu Leu Ser Lys Lys Arg Glu Ser
 65                  70                  75                  80

Val Pro Asp Leu Ala Pro Met Leu Trp His Ser Phe Gly Thr Ile Ala
                 85                  90                  95

Ala Leu Leu Gln Glu Ile Val Asn Ile Tyr Pro Ser Ile Asn Pro Pro
            100                 105                 110

Thr Leu Thr Ala His Gln Ser Asn Arg Val Cys Asn Ala Leu Ala Leu
        115                 120                 125

Leu Gln Cys Val Ala Ser His Pro Glu Thr Arg Ser Ala Phe Leu Ala
    130                 135                 140

Ala His Ile Pro Leu Phe Leu Tyr Pro Phe Leu His Thr Val Ser Lys
145                 150                 155                 160

Thr Arg Pro Phe Glu Tyr Leu Arg Leu Thr Ser Leu Gly Val Ile Gly
                165                 170                 175

Ala Leu Val Lys Thr Asp Glu Gln Glu Val Ile Asn Phe Leu Leu Thr
            180                 185                 190

Thr Glu Ile Ile Pro Leu Cys Leu Arg Ile Met Glu Ser Gly Ser Glu
```

```
        195                 200                 205

Leu Ser Lys Thr Val Ala Thr Phe Ile Leu Gln Lys Ile Leu Leu Asp
    210                 215                 220

Asp Thr Gly Leu Ala Tyr Ile Cys Gln Thr Tyr Glu Arg Phe Ser His
225                 230                 235                 240

Val Ala Met Ile Leu Gly Lys Met Val Leu Gln Leu Ser Lys Glu Pro
                245                 250                 255

Ser Ala Arg Leu Leu Lys His Val Val Arg Cys Tyr Leu Arg Leu Ser
            260                 265                 270

Asp Asn Pro Arg Phe Ser Asp Leu Thr Phe Cys Trp Ser Ser Phe Gln
        275                 280                 285

Arg Lys
    290
```

<210> 5216
<211> 60
<212> PRT
<213> Homo sapiens

<400> 5216

```
Ala Arg Phe Ala Arg Ser Ala His Glu Gly Lys Met Pro Lys Lys Lys
  1               5                  10                  15

Thr Gly Ala Arg Lys Lys Ala Glu Asn Arg Arg Glu Arg Glu Lys Gln
             20                  25                  30

Leu Arg Ala Ser Arg Ser Thr Ile Asp Leu Ala Lys His Pro Cys Asn
         35                  40                  45

Ala Ser Met Val Ser Ala Phe Phe Asp Ile Ser Trp
     50                  55                  60
```

<210> 5217
<211> 93
<212> PRT
<213> Homo sapiens

<400> 5217

```
Glu Ser Ile Gln His Asn Asn Val Leu Lys Pro Ile Asn Leu Leu Ser
  1               5                  10                  15
```

```
Gln Gln Met Lys Pro Gly Met Lys Arg Gln Arg Ser Leu Tyr Arg Glu
            20                  25                  30

Ile Leu Phe Leu Ser Leu Val Ser Leu Gly Arg Glu Asn Ile Asp Ile
        35                  40                  45

Glu Ala Phe Asp Asn Glu Tyr Gly Ile Ala Tyr Asn Ser Leu Ser Ser
    50                  55                  60

Glu Ile Leu Glu Arg Leu Gln Lys Ile Asp Ala Pro Pro Ser Ala Ser
65                  70                  75                  80

Val Glu Trp Cys Arg Lys Cys Phe Gly Ala Pro Leu Ile
                85                  90
```

<210> 5218
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5218

```
Asn Thr Lys Thr Asn Lys Gln Xaa Lys Asn Gln Asn Ala Leu Tyr Arg
  1               5                  10                  15

Ile Ala Cys Glu Val Phe Ser Thr Glu Ser Ile Phe Pro Phe Val Ser
            20                  25                  30

Asp Phe Lys Leu Thr Tyr Glu Gly Arg Glu Met Ile Thr Phe Pro Val
        35                  40                  45

Lys Ser Ile Asp Asn Leu Ile Asn Leu Val Thr Pro Pro Ser Val Leu
    50                  55                  60

Asn Ile Thr Lys Phe Val Val Ile Arg Leu Ser Ala Pro Val Phe Ile
65                  70                  75                  80

Val Glu Leu Pro Leu Ser Leu Glu Thr Phe Leu Leu Lys Asn Asp Gly
                85                  90                  95
```

Ser Ile Val Phe Xaa Tyr Val Pro Met Lys Val Gly
100 105

<210> 5219
<211> 139
<212> PRT
<213> Homo sapiens

<400> 5219
Arg Thr Ser Pro Arg Phe Gln Phe Gln Gly Leu Thr Phe Leu Arg Arg
1 5 10 15

Arg Trp Asn Val Lys Gly Gly Arg Lys Glu Ile Lys Arg Pro Gln Val
20 25 30

Lys Met Trp Lys Val Thr Ser Ser Leu Arg Pro Arg Gly Thr Arg Arg
35 40 45

Glu Ser Pro Arg Gly Pro Arg Pro Ser Glu Arg Val Ala Lys Lys Lys
50 55 60

Ser Ala Pro Ala Glu Glu Gln Leu Arg Gly Pro Cys Trp Asp Gln Ser
65 70 75 80

Ser Lys Ala Ser Ala Gln Asp Ala Gly Asp His Val Gln Pro Pro Glu
85 90 95

Gly Arg Asp Phe Thr Leu Lys Pro Lys Lys Arg Arg Gly Lys Lys Lys
100 105 110

Leu Gln Lys Pro Val Glu Ile Ala Glu Asp Ala Thr Leu Glu Glu Thr
115 120 125

Leu Val Lys Lys Lys Lys Lys Lys Asp Ser Lys
130 135

<210> 5220
<211> 125
<212> PRT
<213> Homo sapiens

<400> 5220
Ser Arg Gln Asn Glu Lys Gly Gly Gly His Cys Ser Pro Leu Asn Ser
1 5 10 15

Phe Phe Arg Ser Ser Ser Met Ser Leu Ser Ala Leu Ala Cys Asp Phe
20 25 30

```
Thr Pro Ile Gln Pro Trp Glu Trp Glu Glu Tyr Glu Gln Ile Thr Leu
         35                  40                  45

Gly Leu Thr Ala Pro Ser Asn Leu Leu Glu Ser Asn Tyr Leu Gly Gln
     50                  55                  60

Ala Ser Glu Cys Phe Val Arg Lys Leu Val Arg Arg Phe Pro Gln Leu
 65                  70                  75                  80

Leu Pro Gly Pro Pro Gly His Cys Arg Lys Asp Leu Gly Asp Pro Gln
                 85                  90                  95

Gln Arg Pro Ile Ala Leu Leu Pro Ser Leu Pro His Gln Glu Arg Asn
            100                 105                 110

Asn Val His Arg Leu Glu Ala Asp Ser Glu Val Asp Leu
        115                 120                 125
```

<210> 5221
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5221

```
Asn Tyr Leu Pro Ser Leu Ser Tyr Ala Ser Xaa Ile Gly Met Leu Leu
  1               5                  10                  15

Val Ser Met His Thr Thr Thr Phe His Gly Phe Tyr Cys Ala Gln Thr
```

20 25 30

Leu His Ala Phe Arg Met Ile Tyr Leu Arg Arg Tyr Ile Ile Cys His
35 40 45

Pro Asp Pro Lys Arg Xaa Arg Xaa Xaa Asp His Ser Glu Pro Leu Ile
50 55 60

Arg Lys Leu Leu Ala Ser Val Phe Asp Thr Ser Leu Thr Leu Tyr Ile
65 70 75 80

His Val Ile Ile Ser Cys Gln Ile Leu Asp Ser Ile Asn Cys Pro Leu
85 90 95

Thr Ala Tyr

<210> 5222
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5222
Lys Tyr Leu Val Glu Ile Pro Glu Phe Tyr Glu Val Xaa Asp Lys Lys
1 5 10 15

Xaa Ala Gln Gly Leu Leu Lys Ser Thr Cys Ile Ile Ser Pro Phe Gln
20 25 30

Lys Thr Xaa Thr Xaa Val Xaa Gly Lys Ile Pro Val Xaa Xaa Ile Cys
35 40 45

Tyr Xaa Phe Leu Leu Pro His Leu Ala Asn Asn Phe
50 55 60

<210> 5223
<211> 212
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (209)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (211)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5223

```
Leu Thr Xaa Xaa Asn Lys Ser Trp Xaa Ser Thr Ala Val Ala Ala Ala
  1               5                  10                  15

Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ala
             20                  25                  30

Ala Ser Met Lys Arg Lys Ser Glu Arg Arg Ser Ser Trp Ala Ala Ala
         35                  40                  45

Pro Pro Cys Ser Arg Arg Cys Ser Ser Thr Ser Pro Gly Val Lys Lys
     50                  55                  60

Ile Arg Ser Ser Thr Gln Gln Asp Pro Arg Arg Arg Asp Pro Gln Asp
 65                  70                  75                  80

Asp Val Tyr Leu Asp Ile Thr Asp Arg Leu Cys Phe Ala Ile Leu Tyr
                 85                  90                  95

Ser Arg Pro Lys Ser Ala Ser Asn Val His Tyr Phe Ser Ile Asp Asn
            100                 105                 110

Glu Leu Glu Tyr Glu Asn Phe Tyr Ala Asp Phe Gly Pro Leu Asn Leu
        115                 120                 125

Ala Met Val Tyr Arg Tyr Cys Cys Lys Ile Asn Lys Lys Leu Lys Ser
    130                 135                 140

Ile Thr Met Leu Arg Lys Lys Ile Val His Phe Thr Gly Ser Asp Gln
145                 150                 155                 160

Arg Lys Gln Ala Asn Ala Ala Phe Leu Val Gly Cys Tyr Met Val Ile
                165                 170                 175
```

```
Tyr Leu Gly Arg Thr Pro Glu Glu Ala Tyr Arg Ile Leu Ile Phe Gly
            180                 185                 190

Glu Thr Ser Tyr Ile Pro Phe Arg Asp Ala Ala Tyr Gly Xaa Cys Xaa
        195                 200                 205

Xaa Thr Xaa Pro
    210
```

<210> 5224
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5224

```
Lys Gln Arg Gly Asn Leu Lys Ala Thr Leu Thr His Leu Gln Ser Ser
  1               5                  10                  15

Gln Ile Leu Thr Phe Thr Arg Leu Ala Phe Cys Phe Trp Ala Ser Pro
             20                  25                  30

Lys Gln Thr Ala Ser His Pro Asn Arg Gly Arg Met Glu Met Phe Val
         35                  40                  45
```

<210> 5225
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5225

```
Trp Tyr Phe Ser Lys Cys Val Leu Val Val Ile Thr Ser Asn Ile Asn
  1               5                  10                  15

Leu Cys Cys Glu Ser Phe Val Ser Phe Ser Thr Val Phe Gln Arg Lys
```

```
            20                  25                  30

Gly Lys Lys Ser Leu Asn Leu Lys Phe Ile Val Lys Ile Lys Tyr Leu
         35                  40                  45

Xaa Ala Val Thr Gln Ala His Gly Ser Gln Ala Glu Lys Gly Leu Gly
     50                  55                  60

Xaa Leu Lys Asn Gly Val Gln Val Val His Gly Arg Leu Leu Asn Ser
 65                  70                  75                  80

Leu Gly Val Gly Met Gly Leu Ala Phe Ser Lys Pro Val His Phe Pro
                 85                  90                  95

Met Ser
```

<210> 5226
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5226

```
Cys Leu Ala His Arg Lys Cys Ser Asp Met Leu Ser Asn Lys Lys Leu
  1               5                  10                  15

Met Trp Trp Val Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu
             20                  25                  30

Ala Glu Val Ser Gly Leu Gln Gly Gln Glu Phe Gln Thr Ser Leu Ala
         35                  40                  45

Asn Met Xaa Lys Pro Arg Leu Tyr
     50                  55
```

<210> 5227
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5227
Gln Ser Lys Pro Leu Asn Ile Thr His Leu His Leu Gln Val Trp Pro
1 5 10 15

Gln Xaa Phe Lys Trp Leu Leu Ser Leu Leu His Ser Thr Tyr Pro Leu
20 25 30

Leu Gln Leu Phe His Lys Tyr Arg Leu Asn Ile Pro Tyr Leu Lys Cys
35 40 45

Leu Gly Leu Xaa Val Ser Asp Phe Arg Tyr Val Trp Ile Leu Glu Tyr
50 55 60

Leu Tyr Met Tyr Asn Glu Xaa Leu Leu Glu Leu Gly Pro Lys Ser Lys
65 70 75 80

Gln Asn Ser Phe Met Phe His Ile Tyr Leu Ile His Ile Thr
85 90

<210> 5228
<211> 24
<212> PRT
<213> Homo sapiens

<400> 5228
Lys Glu Pro Met Gln Val Trp Phe Leu Ser Arg Lys Asn Thr Gly Thr
1 5 10 15

Glu Glu Thr Lys Gln Asp Asp Asp
20

<210> 5229
<211> 133
<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5229

```
Arg Ala Arg Arg Gly Val Ser Val Lys Ala Xaa Lys Xaa Glu Thr Ala
  1               5                  10                  15

Ala Thr Met Lys Asp Xaa Ala Leu Lys Xaa Lys Val Ser Thr Ala Thr
             20                  25                  30

Val Ser Arg Ala Leu Met Asn Pro Asp Lys Val Ser Gln Ala Thr Arg
         35                  40                  45

Asn Arg Val Glu Lys Ala Ala Arg Glu Val Gly Tyr Leu Pro Gln Pro
     50                  55                  60

Met Gly Arg Asn Val Lys Arg Asn Glu Ser Arg Thr Ile Leu Val Ile
 65                  70                  75                  80

Val Pro Asp Ile Cys Asp Pro Phe Phe Ser Glu Ile Ile Arg Gly Ile
                 85                  90                  95
```

```
Leu Arg His Phe Ile Asp Glu Glu Leu Glu Lys Met Asp Cys Val Gln
     50                  55                  60

Gln Arg Lys Lys Gln Leu Ala Glu Leu Glu Thr Trp Val Ile Gln Lys
 65                  70                  75                  80

Glu Ser Glu Val Ala His Val Asp Gln Leu Phe Asp Asp Ala Ser Arg
                 85                  90                  95

Ala Val Thr Asn Cys Glu Ser Leu Val Lys Asp Phe Tyr Ser Lys Leu
            100                 105                 110

Gly Leu Gln Tyr Arg Asp Ser Ser Ser Glu Asp Glu Ser Ser Arg Pro
        115                 120                 125

Thr Glu Ile Ile Glu Ile Pro Asp Glu Asp Asp Asp Val Leu Ser Ile
    130                 135                 140

Asp Ser Gly Asp Ala Gly Ser Arg Thr Pro Lys Asp Gln Lys Leu Arg
145                 150                 155                 160

Glu Ala Met Ala Ala Leu Arg Lys Ser Ala Gln Asp Val Gln Lys Phe
                165                 170                 175

Met Asp Ala Val Asn Lys Lys Ser Ser Ser Gln Asp Leu His Lys Gly
            180                 185                 190

Thr Leu Ser Gln Met Ser Gly Glu Leu Ser Lys Asp Gly Asp Leu Ile
        195                 200                 205

Val Ser Met Arg Ile Leu Gly Lys Lys Arg Thr Lys Thr Trp His Lys
    210                 215                 220

Gly Pro Leu Leu Pro Xaa Arg Gln Leu Asp Gln Gly Ser Thr Gln Ala
225                 230                 235                 240

Pro Val Xaa Ser Ala Xaa Gln Ala Gln Xaa Arg Lys Glu Asn His Leu
                245                 250                 255

Xaa Thr Phe Ile Pro
            260
```

<210> 5231
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5231
Ile Asn Pro Ala Leu Leu Arg Lys Gly Asn Leu Phe Arg Gln Ser Gly

```
  1               5                  10                  15

Lys Gly Val Leu Arg Lys Leu Ser Phe Phe Ile Pro Ser Phe Leu Pro
             20                  25                  30

Thr Thr Val Thr Gly Tyr Arg Gly Leu Trp Thr Leu Lys Thr Asn Val
         35                  40                  45

Trp Pro Leu Thr Gly Leu Ile Cys Ile Phe Leu
     50                  55
```

<210> 5232
<211> 39
<212> PRT
<213> Homo sapiens

<400> 5232

```
Thr Ser Ser Pro Trp Ala Ala Pro Pro Gly Ser Gly Gly Pro Glu Pro
  1               5                  10                  15

Pro Arg Pro Gly Leu Pro Arg Leu Gly Leu Gly Asp Leu Asn Leu Leu
             20                  25                  30

Thr Leu Gly Cys Pro Ser Trp
         35
```

<210> 5233
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5233

```
Lys Leu Cys Arg Leu Ile Asn Glu Asp Val Asn Glu Gln Val Met Gln
  1               5                  10                  15

Val Leu Gly Pro Glu Asp Leu Gln Ser Ile Ile Tyr Lys Xaa Glu Glu
             20                  25                  30

His Glu Glu Phe Phe Pro Ala Phe Gln Ala Phe Thr Asn Asp Leu Leu
         35                  40                  45

Glu Ile Leu Glu Ile Asp Asp Leu Asp Ala Ile Val Pro Ala Val Lys
```

50 55 60

Lys Leu Lys Val Leu Ser Tyr
65 70

<210> 5234
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5234
Ala Leu Val Leu Ser Arg Glu Gln Glu Lys Leu Phe Glu Lys Gly Lys
1 5 10 15

Glu Ser Ile Pro Tyr Leu Ile Arg Thr His Arg His Ala Arg His Gly
20 25 30

His Gly Val His Val His Leu Ser His Val Thr Thr Ala Ala Ile His
35 40 45

Val His His Thr Ile His Cys Arg Ile Xaa Leu Val Gly Lys Leu Ala
50 55 60

Ala Gly Glu Arg Ser Leu Ser Lys Gln Met Val Tyr Tyr Leu Trp Ser
65 70 75 80

Thr

<210> 5235
<211> 85
<212> PRT
<213> Homo sapiens

<400> 5235
Ala Asp Lys Asn Glu Ile Leu Phe Ser Glu Phe Asn Ile Asn Tyr Asn
1 5 10 15

Asn Glu Leu Pro Met Tyr Arg Lys Gly Thr Val Leu Ile Trp Gln Lys
20 25 30

Val Asp Glu Val Met Thr Lys Glu Ile Lys Leu Pro Thr Glu Met Glu

35 40 45

Gly Lys Lys Met Ala Val Thr Arg Thr Arg Thr Lys Pro Val Pro Leu
50 55 60

His Cys Asp Ile Ile Gly Asp Ala Phe Trp Lys Glu His Pro Glu Ile
65 70 75 80

Leu Asp Glu Asp Ser
85

<210> 5236
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5236
Leu Glu Cys Trp Val Val Leu Ser Ile Ile Gly Val Lys Cys Gly Ala
1 5 10 15

Val Ala Tyr Thr Cys Asn Pro Ser Thr Leu Gly Lys Leu Xaa Trp Gly
20 25 30

Gly Ser Leu Glu Val Gln Glu Phe Glu Ala Thr Leu Gly Gln His Gly
35 40 45

Gly Thr Pro Ile Phe
50

<210> 5237
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5237
Glu Lys Xaa Ser Gly Val Val Trp Asp Arg Ser Ala Thr His Ser Glu
1 5 10 15

Met Val Gln Glu Asn Gln Phe Phe Met Leu Tyr Phe Gln Ser Leu Tyr
20 25 30

Lys Phe Val Phe Val Ser Lys Ile Lys Lys Arg Xaa Lys Met Glu Gly
35 40 45

Lys Ile Pro Gly Arg Gln Met Asn Lys Arg His Glu
50 55 60

<210> 5238
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5238
Lys Arg Lys Lys Ser Phe Trp Gly Met Leu Tyr His Ser Asn Gly Ser
1 5 10 15

Val Thr Thr Tyr Phe Val Leu Ser Met Ser Leu Ile Pro Ser Tyr Glu
20 25 30

Thr Ile Trp Leu Asp Tyr Pro Val Tyr Cys Val Glu Ile Lys Val Leu
35 40 45

Ile Cys Thr Phe Leu Val Gln Tyr Leu Ser Tyr
50 55

<210> 5239
<211> 54
<212> PRT
<213> Homo sapiens

<400> 5239
Tyr Leu His Phe His Ile Leu Val Ile Cys Leu Leu His Thr Trp Gln
1 5 10 15

Asn Lys Thr Glu Ile Pro Ser Gln Lys Lys Lys Glu Lys Glu Lys Lys
20 25 30

Ile Ala Leu Tyr Leu Phe Leu Val Ser Thr Ala Met Lys Ile Leu Asn
35 40 45

Thr Pro Asn Ser Val Glu
50

<210> 5240
<211> 70
<212> PRT
<213> Homo sapiens

<400> 5240
Cys Phe Phe Phe Ile Val Phe Gln Ser Val Ser Ile His Leu Lys Lys
1 5 10 15

Lys Asn Arg Asn Asn Ser Arg Tyr Phe Lys Gln Lys Gly Ile Trp Trp
20 25 30

Lys Gly Leu Thr Ile Val Met Ser Gly Arg Leu Val Glu Pro Lys Arg
35 40 45

Arg Gly Cys Cys Pro Lys Ile Arg Lys Leu Pro Val Pro Thr Pro Thr
50 55 60

Ala Ala Leu Leu Glu Ala
65 70

<210> 5241
<211> 119
<212> PRT
<213> Homo sapiens

<400> 5241
Thr Gly Glu Ala Ala Leu Trp Gly Leu Pro Ala Ala Gly Ala Gly Glu
1 5 10 15

Arg His Val Asp Thr Trp Pro Leu Trp Leu Pro Pro Ala Arg Ser Ser
20 25 30

Ala Gly Pro Ser Pro Trp Gly Trp Ala Ser Cys Ser Arg Ser Arg Thr
35 40 45

Pro Ser Gly Leu Lys Val Gly Glu Val Trp Trp Trp Arg Trp Gly Gly
50 55 60

Ser Glu Lys Cys Lys Arg Pro Val Gly Leu Gln Gln Lys Glu Ala Ser
65 70 75 80

Gly Gly Trp Asp Gly Gly Gln Trp Gly Lys Ala Leu Gly Ser Ile Gly

85 90 95

Gly Ser Leu Ala Ala Asn Ser Leu Asp Phe Gly Gly Gln Val Arg Pro
100 105 110

Ala Ser Leu Ala Pro Ala Ala
115

<210> 5242
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5242
Gly Pro Xaa Lys Glu Arg Arg Phe Gly Ala Val Ala Cys Gly Val Ala
1 5 10 15

Met Glu Leu Tyr Val Phe Gly Gly Val Arg Ser Arg Glu Asp Ala Gln
20 25 30

Gly Ser Glu Met Val Thr Cys Lys Ser Glu Phe Tyr His Asp Glu Phe
35 40 45

Lys Arg Trp Ile Tyr Leu Asn Asp Gln Asn Leu Cys Ile Pro Ala Ser
50 55 60

Ser Ser Phe Val Tyr Gly Ala Val Pro Ile Gly Ala Ser Ile Tyr Val
65 70 75 80

Ile Gly Asp Leu Asp Thr Gly Thr Asn Tyr Asp Tyr Val Arg Glu Phe
85 90 95

Lys Arg Ser Thr Gly Thr Trp His Xaa Xaa Lys Pro Leu Leu Pro Ser
100 105 110

Asp Leu Arg Arg Thr Gly Cys Ala Ala Leu Arg Ile Ala Asn Cys Lys
115 120 125

Leu Phe Arg Leu Gln Leu Gln Gln Gly Leu Phe Arg Ile Arg Val His
130 135 140

Ser Pro
145

<210> 5243
<211> 104
<212> PRT
<213> Homo sapiens

<400> 5243
Asp Gly Pro Ala Lys Cys Arg Pro Leu Leu Leu Asn Lys Asn Ile Leu
1 5 10 15

Lys Pro Leu Phe Leu Leu His Gly Gln Glu Ala Ala Arg Glu Ser Ala
20 25 30

Arg Val Pro Trp Ser Glu Leu Ala Ser Pro Cys Leu Leu Cys Pro Arg
35 40 45

Ala Ala Trp Phe Leu Val Gln Cys Ser Asp Thr Ala Cys Pro Ser Pro
50 55 60

Thr Ser Ser Gln Gln His Leu Leu Ser Leu Ala Ala Met Ala Met Thr
65 70 75 80

Thr Pro Glu Lys Gln Leu Gln Gly Pro Ser Gln Ile Leu Phe Cys Leu
85 90 95

His Ala Ser Ala Gly Cys Arg Tyr
100

<210> 5244
<211> 461
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (241)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5244

Ile	Glu	Thr	Ser	Asn	Lys	Asn	Asp	Met	Thr	Ile	Asp	Ile	Leu	His	Ala
1				5					10					15	

Asp	Gly	Glu	Arg	Pro	Asn	Val	Leu	Glu	Asn	Leu	Asp	Asn	Ser	Lys	Glu
			20					25					30		

Lys	Thr	Val	Gly	Ser	Glu	Ala	Ala	Lys	Thr	Glu	Asp	Thr	Val	Leu	Cys
		35					40					45			

Ser	Ser	Asp	Thr	Asp	Glu	Glu	Cys	Leu	Ile	Ile	Xaa	Thr	Glu	Cys	Lys
	50					55					60				

Asn	Asn	Ser	Asp	Gly	Lys	Thr	Ala	Val	Val	Gly	Ser	Asn	Leu	Ser	Ser
65					70					75					80

Arg	Pro	Ala	Ser	Pro	Asn	Ser	Ser	Ser	Gly	Gln	Ala	Ser	Val	Gly	Asn
			85					90					95		

Gln	Thr	Asn	Thr	Ala	Cys	Xaa	Pro	Glu	Glu	Ser	Cys	Val	Leu	Lys	Lys
			100					105					110		

Pro	Ile	Lys	Arg	Val	Tyr	Lys	Lys	Phe	Asp	Pro	Val	Gly	Glu	Ile	Leu
		115					120					125			

Lys	Met	Gln	Asp	Glu	Leu	Xaa	Lys	Pro	Ile	Ser	Arg	Lys	Val	Pro	Glu
	130					135					140				

Leu	Pro	Leu	Met	Asn	Leu	Glu	Asn	Ser	Lys	Gln	Pro	Ser	Val	Ser	Glu
145					150					155					160

Gln	Leu	Ser	Gly	Pro	Ser	Asp	Ser	Ser	Ser	Trp	Pro	Lys	Ser	Gly	Trp
				165					170					175	

Pro	Ser	Ala	Phe	Gln	Lys	Pro	Lys	Gly	Arg	Leu	Pro	Tyr	Glu	Leu	Gln
			180					185					190		

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Asp Tyr Val Glu Asp Thr Ser Glu Tyr Leu Ala Pro Gln Glu Gly Asn
        195                 200                 205

Phe Val Tyr Lys Leu Phe Ser Leu Gln Asp Leu Leu Leu Leu Val Arg
    210                 215                 220

Cys Ser Val Gln Arg Ile Glu Thr Arg Pro Arg Ser Lys Lys Arg Lys
225                 230                 235                 240

Xaa Ile Arg Arg Gln Phe Pro Val Tyr Val Leu Pro Lys Val Glu Tyr
                245                 250                 255

Gln Ala Cys Tyr Gly Val Glu Ala Leu Thr Glu Ser Glu Leu Cys Arg
            260                 265                 270

Leu Trp Thr Glu Ser Leu Leu His Ser Asn Ser Ser Phe Tyr Val Gly
        275                 280                 285

His Ile Asp Ala Phe Thr Ser Lys Leu Phe Leu Leu Glu Glu Ile Thr
    290                 295                 300

Ser Glu Glu Leu Lys Glu Lys Leu Ser Ala Leu Lys Ile Ser Asn Leu
305                 310                 315                 320

Phe Asn Ile Leu Gln His Ile Leu Lys Lys Leu Ser Ser Leu Gln Glu
                325                 330                 335

Gly Ser Tyr Leu Leu Ser His Ala Ala Glu Asp Ser Ser Leu Leu Ile
            340                 345                 350

Tyr Lys Ala Ser Asp Gly Lys Val Thr Arg Thr Ala Tyr Asn Leu Tyr
        355                 360                 365

Lys Thr His Cys Gly Leu Pro Gly Val Pro Ser Ser Leu Ser Val Pro
    370                 375                 380

Trp Val Pro Leu Asp Pro Ser Leu Leu Leu Pro Tyr His Ile His His
385                 390                 395                 400

Gly Arg Ile Pro Cys Thr Phe Pro Pro Lys Ser Leu Asp Thr Thr Thr
                405                 410                 415

Gln Gln Lys Ile Gly Gly Thr Arg Met Pro Thr Arg Ser His Arg Asn
            420                 425                 430

Pro Val Ser Met Glu Thr Lys Ser Ser Cys Leu Pro Ala Gln Gln Val
        435                 440                 445

Glu Thr Glu Gly Val Ala Pro His Lys Arg Lys Ile Thr
    450                 455                 460
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<210> 5245
<211> 121
<212> PRT
<213> Homo sapiens

<400> 5245
Leu Tyr Ser Pro Phe Gln Phe Phe Leu Pro Leu Phe Leu Phe Leu Ser
1 5 10 15

Cys Ser Pro Leu Ser Ala Leu Gln Asp Phe Pro Ala Thr Trp Val Leu
20 25 30

Val Leu Lys Leu Pro Tyr Thr Phe Thr Val Phe Phe Leu Leu Pro Phe
35 40 45

Phe Leu Ile Phe Ile Ser Phe Leu Asn Phe Leu Ser Leu Ser Ser Leu
50 55 60

Pro Phe Leu Leu Ser Phe Leu Phe Val His Val Ile Ser Ser Pro Cys
65 70 75 80

Leu Pro Pro Leu Thr Phe Leu Tyr Phe Leu Ser Leu Pro Pro Tyr Tyr
85 90 95

Ser Phe Leu Phe Leu Val Leu Gln Phe Asn Tyr Phe Lys His Ile Thr
100 105 110

His Lys Ala Cys His Ser Leu Asp Phe
115 120

<210> 5246
<211> 79
<212> PRT
<213> Homo sapiens

<400> 5246
Thr Leu His Thr Ala His Pro Ser Pro Val Leu Thr Leu Cys Ser Tyr
1 5 10 15

His Ser Leu Ala Ala Cys His Ala Val Gly Leu Gln Ile Cys Thr His
20 25 30

Lys Phe Leu Arg Lys Ser Leu His Glu His His Leu Ala Ile Phe Cys
35 40 45

Thr Asp Gln Thr Arg Asp Leu Asn Val Phe Gln His Lys Arg Ile Thr

50 55 60

Ser Glu Trp Trp Ser Val Arg Ile Leu Ala Lys Val Met Val Ile
65 70 75

<210> 5247
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5247
Leu Glu Glu Thr Leu Phe Leu Gln Gly Thr Lys Gln Leu Tyr Phe Ser
1 5 10 15

Thr Asp Met His Tyr Phe His Cys Glu Phe Thr Phe Leu Leu His Val
20 25 30

Gln Met Ser Leu Phe Val Phe Phe Phe Cys Asn Ile Asn Cys Asn Asp
35 40 45

Val Leu Pro Gly Ile His Glu Asn Ile Ile Lys Thr His Phe
50 55 60

<210> 5248
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5248
Pro Gly Glu Pro Lys Pro Thr Pro Arg Gly Lys Pro Gly Gln Thr Gly
1 5 10 15

Gly Pro Pro Ser Trp Tyr Xaa Pro Xaa Lys Leu Ile Ala Leu Xaa Gly
20 25 30

Gly Gly Glu Lys Thr Pro Thr His Leu Val Arg Glu Val Phe Cys Leu
35 40 45

Tyr Cys Gly Val Arg Ala Glu Glu Lys Ser Leu Phe Phe Pro Leu Arg
50 55 60

Leu Cys Phe Lys Glu Gln Gly Arg Gly Lys Phe Cys Gly Phe
65 70 75

<210> 5249
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5249
Lys Leu Thr Lys Cys Pro Val Arg Trp Leu Arg Pro Ala Ile Pro Ala
1 5 10 15

Leu Trp Glu Ala Glu Val Gly Gly Ser Leu Glu Ala Arg Ser Leu Arg
20 25 30

Thr Ala Trp Pro Thr Trp Arg Asn Pro Val Ser Thr Ile Xaa Thr Lys
35 40 45

Phe Asn Gln Ala Trp Trp Trp Ala Pro Val Val Pro Ala Tyr Leu Gly
50 55 60

Asp Leu Ser His Glu Glu Ser Leu Xaa Pro Ser Trp Val Gly Xaa Leu
65 70 75 80

<210> 5250
<211> 60
<212> PRT
<213> Homo sapiens

<400> 5250
Pro Pro Gly Ser Asn Lys Pro Pro Ala Ser Ala Tyr Gln Val Ala Glu
1 5 10 15

Thr Thr Gly Thr Tyr His Arg Ala Cys Leu Ile Phe Lys Ile Phe Tyr
20 25 30

Lys Asp Glu Val Ser Leu Cys Cys Pro Gly Trp Ser Gln Thr Pro Asn
35 40 45

Leu Lys Gln Ser Ala His Val Gly Leu Pro Lys Cys
50 55 60

<210> 5251
<211> 69
<212> PRT
<213> Homo sapiens

<400> 5251
Val Tyr Gly Asn Tyr Leu Ile Ile Leu Lys Arg Thr His Phe Ser Cys
1 5 10 15

Lys Tyr Val Thr Ser Glu Phe Lys Lys Ile Thr Leu Asn Thr Leu Ile
20 25 30

Phe Ala Ala Phe Phe Ser Val Tyr Ile Thr Cys Leu Leu Ser Glu Trp
35 40 45

Glu Tyr Met Cys Ala Ser Gln His Leu Leu Leu Lys Cys Val Ile Phe
50 55 60

Ile Cys Gln Thr Gly
65

<210> 5252
<211> 54
<212> PRT
<213> Homo sapiens

<400> 5252
Arg His Lys Asp Thr Phe Arg Ile Val Lys Thr Leu Ser Ile Glu Lys
1 5 10 15

Phe Leu Asn Glu Thr Val Ser Lys Lys Ser Phe Ala Ser Arg Phe Leu
20 25 30

Arg Gly Ala Ile Lys Lys Arg Thr Leu Pro Val Val Thr Ala Ala Ala
35 40 45

Ile Ala Pro Leu Tyr Cys
50

<210> 5253
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5253
Phe His Leu Gln Gln Leu Leu Glu Arg Lys Pro Asp Asn Tyr Met Thr
1 5 10 15

Leu Ser Arg Leu Ile Asp Leu Leu Arg Arg Cys Gly Lys Leu Glu Asp
20 25 30

Val Pro Arg Phe Phe Ser Met Ala Glu Lys Arg Asn Ser Arg Ala Lys
35 40 45

Leu Glu Pro Gly Phe Gln Tyr Cys Lys Gly Leu Tyr Leu Trp Tyr Thr
50 55 60

Gly Xaa Xaa Asn Asp Ala Leu Arg His Phe Asn Lys Ala Arg Lys Asp
65 70 75 80

Arg Asp Trp Gly Gln Asn Ala Leu Tyr Asn Met Ile Glu Asn Leu Phe
85 90 95

Glu Ser Arg

<210> 5254
<211> 144
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5254
Ser Val Leu Trp Asn Ala Met Ile His Pro Leu Cys Asn Met Thr Leu
1 5 10 15

Lys Gly Val Val Trp Tyr Gln Gly Glu Ser Asn Ile Asn Tyr Asn Thr
20 25 30

Asp Leu Tyr Asn Cys Thr Phe Pro Ala Leu Ile Glu Asp Trp Arg Glu
35 40 45

Thr Phe His Arg Gly Ser Gln Gly Gln Thr Glu Arg Phe Phe Pro Phe
50 55 60

Gly Leu Val Gln Leu Ser Ser Asp Leu Ser Lys Lys Xaa Ser Asp Asp
65 70 75 80

Gly Phe Pro Gln Ile Arg Trp His Gln Thr Ala Asp Phe Gly Tyr Val
85 90 95

Pro Asn Pro Lys Met Pro Asn Thr Phe Met Ala Val Ala Met Asp Leu
100 105 110

Cys Asp Arg Asp Ser Pro Phe Gly Ser Ile His Pro Arg Asp Lys Gln
115 120 125

Asn Cys Gly Leu Ser Ala Ala Phe Gly Gly Pro Cys Ser Gly Leu Trp
130 135 140

<210> 5255
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5255
Val Leu Pro Leu Leu Pro Lys Val Leu Gly Leu Arg His His Thr Gln
1 5 10 15

Pro Lys Leu Lys Ala Ile Phe Ser Asn Ser His Gln Cys Gly Tyr Cys
20 25 30

Tyr Lys Xaa Xaa Trp Phe Leu Gly His Ile Trp Tyr Gln Asn Val Tyr
35 40 45

Val Tyr Pro Tyr Lys Tyr Gly Met
50 55

<210> 5256
<211> 434
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (347)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5256
Asn Leu Asn Met Glu Ala Thr Gly Thr Asp Glu Val Asp Lys Leu Lys
1 5 10 15

Thr Lys Phe Ile Ser Ala Trp Asn Asn Met Lys Tyr Ser Trp Val Leu
20 25 30

Lys Thr Lys Thr Tyr Phe Ser Arg Asn Ser Pro Val Leu Leu Leu Gly
35 40 45

Lys Cys Tyr His Phe Lys Tyr Glu Asp Glu Asp Lys Thr Leu Pro Ala
50 55 60

Glu Ser Gly Cys Thr Ile Glu Asp His Val Ile Ala Gly Asn Val Glu
65 70 75 80

```
Glu Phe Arg Lys Asp Phe Ile Ser Arg Ile Trp Leu Thr Tyr Arg Glu
                85                  90                  95

Glu Phe Pro Gln Ile Glu Gly Ser Ala Leu Thr Thr Asp Cys Gly Trp
            100                 105                 110

Gly Cys Thr Leu Arg Thr Gly Gln Met Leu Leu Ala Gln Gly Leu Ile
        115                 120                 125

Leu His Phe Leu Gly Arg Ala Trp Thr Trp Pro Asp Ala Leu Asn Ile
    130                 135                 140

Glu Asn Ser Asp Ser Glu Ser Trp Thr Ser His Thr Val Lys Lys Phe
145                 150                 155                 160

Thr Ala Ser Phe Glu Ala Ser Leu Ser Gly Glu Arg Glu Phe Lys Thr
                165                 170                 175

Pro Thr Ile Ser Leu Lys Glu Thr Ile Gly Lys Tyr Ser Asp Asp His
            180                 185                 190

Glu Met Arg Asn Glu Val Tyr His Arg Lys Ile Ile Ser Trp Phe Gly
        195                 200                 205

Asp Ser Pro Leu Ala Leu Phe Gly Leu His Gln Leu Ile Glu Tyr Gly
    210                 215                 220

Lys Lys Ser Gly Lys Lys Ala Gly Asp Trp Tyr Gly Pro Ala Val Val
225                 230                 235                 240

Ala His Ile Leu Arg Lys Ala Val Glu Glu Ala Arg His Pro Asp Leu
                245                 250                 255

Gln Gly Ile Thr Ile Tyr Val Ala Gln Asp Cys Thr Val Pro Val Arg
            260                 265                 270

Leu Gly Gly Glu Arg Thr Asn Thr Asp Tyr Leu Glu Phe Val Lys Gly
        275                 280                 285

Ile Leu Ser Leu Glu Tyr Cys Val Gly Ile Ile Gly Gly Lys Pro Lys
    290                 295                 300

Gln Ser Tyr Tyr Phe Ala Gly Phe Gln Asp Asp Ser Leu Ile Tyr Met
305                 310                 315                 320

Asp Pro His Tyr Cys Gln Ser Phe Val Asp Val Ser Ile Lys Asp Phe
                325                 330                 335

Pro Leu Glu Thr Phe His Cys Pro Ser Pro Xaa Lys Met Ser Phe Arg
            340                 345                 350
```

```
Lys Met Asp Pro Ser Cys Thr Ile Gly Phe Tyr Cys Arg Asn Val Gln
        355                 360                 365

Asp Phe Lys Arg Ala Ser Glu Glu Ile Thr Lys Met Leu Lys Phe Ser
    370                 375                 380

Ser Lys Glu Lys Tyr Pro Leu Phe Thr Phe Val Asn Gly His Ser Arg
385                 390                 395                 400

Asp Tyr Asp Phe Thr Ser Thr Thr Thr Asn Glu Glu Asp Leu Phe Ser
                405                 410                 415

Glu Asp Glu Lys Lys Gln Leu Lys Arg Phe Ser Thr Glu Glu Phe Val
            420                 425                 430

Leu Leu
```

<210> 5257
<211> 68
<212> PRT
<213> Homo sapiens

<400> 5257

```
Tyr Ile Ser Cys Ile Phe Tyr Asp Phe Ser Ile Lys His Ser Gly Val
  1               5                  10                  15

Leu Ala Phe Pro Gly Lys Gly Lys Leu Val Cys Ala Leu Val Lys Tyr
             20                  25                  30

Leu Asn Ser Asn Val Pro Tyr Ser Ala Cys Ile His Phe Val Lys Ser
         35                  40                  45

Phe Val Val Leu Leu Glu Gln Phe Ser Lys Ala Asp Phe Met Pro Tyr
     50                  55                  60

Leu Ile Glu Ile
 65
```

<210> 5258
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5258
Ile Ala Gly Arg Gly Ile Met Ala Cys Gln His Ser Leu Cys Pro Xaa
1 5 10 15

Asn Leu Arg Pro Arg Met Arg Ser Cys Gln His Asn Ile His Pro Phe
20 25 30

Glu Gln Met Glu Ser Gly Thr Leu Thr Gln Pro Ser Val Leu Asn Asn
35 40 45

Thr Ala Ile Ile Ala Thr Cys Ser Val Val Asn Val Asn Pro Gln Ser
50 55 60

Gln Leu Asn Tyr Phe Arg Pro Asn Ile Leu Phe Leu
65 70 75

<210> 5259
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5259
Gln Gly Phe Gly Arg Pro Ser Val Tyr His Ala Ala Ile Val Xaa Phe
1 5 10 15

Leu Glu Phe Phe Ala Trp Gly Leu Leu Thr Thr Pro Met Leu Thr Val
20 25 30

Leu His Glu Thr Phe Ser Gln His Thr Phe Leu Met Asn Gly Leu Ile
35 40 45

```
Gln Gly Val Lys Gly Leu Leu Ser Phe Leu Ser Ala Pro Leu Ile Gly
     50                  55                  60

Ala Leu Ser Asp Val Trp Gly Arg Lys Pro Phe Leu Leu Gly Thr Val
 65                  70                  75                  80

Phe Phe Xaa Xaa Phe Pro Ile Pro Leu Met Arg Ile Ser Pro Cys Phe
                 85                  90                  95

Leu Lys Lys Lys Thr His Gln Trp Thr
            100                 105
```

<210> 5260
<211> 57
<212> PRT
<213> Homo sapiens

<400> 5260

```
Leu Arg Tyr Ser Leu Ile Phe Tyr Ile Ala Ala Leu Phe Phe Leu Phe
  1               5                  10                  15

Cys Ser Ile Ser Glu Ile Ser His Val Tyr Thr Leu Asn Ile Asn Ile
             20                  25                  30

Arg Asn His Ala Ile Ile Ser Thr Met Tyr Leu Val Val Ser Tyr Ile
         35                  40                  45

Cys Ile Thr Leu Leu His Phe Ala Asn
     50                  55
```

<210> 5261
<211> 25
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5261

```
Leu Ile Tyr Lys Tyr Asn Tyr Thr Lys Leu Gln Asn Ile Val Xaa Met
  1               5                  10                  15

Lys Thr Lys Asn Leu Val Pro Asn Ile
             20                  25
```

<210> 5262
<211> 97
<212> PRT
<213> Homo sapiens

<400> 5262
Ser Asp Lys Ala Leu Ala Ser Asp Pro Cys Gln Asn Ser Ile Asn Gly
1 5 10 15

Cys Leu Glu Val Asp Val His Ile Tyr Ser Glu Met Phe Cys His Leu
20 25 30

Arg Pro Met Arg Arg Leu Cys Leu Glu Lys Ile Phe Pro His Trp Phe
35 40 45

Pro Phe Ser Arg Ala Leu Ser Gly Ala Glu Ala Val Asn Ala Leu Arg
50 55 60

Pro Phe Tyr Phe Ala Val His Pro Asp Phe Phe Gly Gln His Pro Val
65 70 75 80

Glu Arg Asp Asp Thr Trp Lys Ser Phe Gln Cys Pro Ser Asp Phe Ser
85 90 95

Leu

<210> 5263
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5263
Ala Ser Cys Arg Thr Xaa Ser Arg Met Ala Ile Phe Glu Leu Val Ser
1 5 10 15

Lys Xaa Arg Xaa Leu Tyr Leu Xaa Gln Lys Ile Leu Cys Glu Leu Ser
20 25 30

Gly His Xaa Asp Leu Phe Val Asp Val Asn Lys His Leu Phe Asp Gly
35 40 45

Glu Val Cys Ala Ile Asn His Phe Val Lys Leu Leu Lys Asp Ile Ile
50 55 60

Ile Cys Phe Leu Asn Ile Arg Ala Lys Asn Val Ala Gln Asn Pro Leu
65 70 75 80

Lys His His Ser Glu Arg Thr Asp Met Lys Thr Leu Ser Arg Lys His
85 90 95

Trp Ser Ser Val Gln Asp Tyr Lys Cys Ser Ser Phe Ala Asn Thr Ser
100 105 110

Ser Lys Phe Arg His Leu Leu Ser Asn Asp Gly Tyr Pro Phe Lys
115 120 125

<210> 5264
<211> 44
<212> PRT
<213> Homo sapiens

<400> 5264
Asp Ser Phe Ile Leu His Leu Phe Ile Gln Leu Ile Phe Val Glu His
1 5 10 15

Leu His Val Pro Asp Ile Ile Lys Cys Trp Val Tyr Gly Asn Glu Gln
20 25 30

Asn Arg Gln Gly Pro Cys Pro Phe Arg Gly Asp Arg
35 40

<210> 5265
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5265
Leu Lys Ile Asp Thr Asn Arg Ile Arg Thr Glu Asn Gly Ser Ile Leu
1 5 10 15

Pro Ser Val Val Pro Gln Glu His Asn Thr Leu Pro Val Ser Gln Ala
20 25 30

Pro Ser Lys Pro Asn Leu Thr Ser Glu His Thr Ser Tyr Gly Leu Ile
35 40 45

Leu Thr Lys Pro Tyr Val Arg Pro Leu Pro Pro Ser Tyr Leu Asp Glu
50 55 60

Arg Tyr Leu Xaa Met Pro Lys Arg Arg Lys Phe Leu Thr Asp Arg Val
65 70 75 80

Xaa Ala Cys Ser Asp Gln Asp Asn Val Tyr Lys Lys Ser Val Lys Arg
85 90 95

Leu Arg Cys Gly Lys Cys Leu Thr Thr Tyr Cys Asn Ala Xaa Ala Leu
100 105 110

Glu Ala His Leu Ala Gln Lys Lys Cys Gln Thr Leu Phe Gly Ile
115 120 125

<210> 5266

<211> 225
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5266
Leu Pro Gly Pro Gly Ala Cys Pro Glu Gly Val Trp Thr Leu Asn Ser
1 5 10 15

Ala Pro Thr Gln Gly Pro Thr Ala Ala Pro Gly Ala Cys His Pro Gly
20 25 30

Leu Leu Gly Arg Gly Gln Gly Leu Xaa Leu Gly Leu Pro Ser Thr Pro
35 40 45

Gly Thr Pro Thr Pro Thr Pro His Thr Ser Leu Gly Ser Pro Val Ser
50 55 60

Ser Asp Pro Val His Met Ser Pro Leu Glu Pro Arg Gly Gly Gln Gly
65 70 75 80

Asp Gly Leu Ala Leu Val Leu Ile Leu Ala Phe Cys Val Ala Gly Ala
85 90 95

Ala Ala Leu Ser Val Ala Ser Leu Cys Trp Cys Arg Leu Gln Arg Glu
100 105 110

Ile Arg Leu Thr Gln Lys Ala Asp Tyr Ala Thr Ala Lys Ala Pro Gly
115 120 125

Ser Pro Ala Ala Pro Arg Ile Ser Pro Gly Asp Gln Arg Leu Ala Gln
130 135 140

Ser Ala Glu Met Tyr His Tyr Gln His Gln Arg Gln Gln Met Leu Cys
145 150 155 160

Leu Glu Arg His Lys Glu Pro Pro Lys Glu Leu Asp Thr Ala Ser Ser
165 170 175

Asp Glu Glu Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys Pro Gly
180 185 190

Leu Ala Pro Thr Gly Glu Met Glu Val Arg Asn Pro Leu Phe Asp His
195 200 205

Ala Ala Leu Ser Ala Pro Leu Pro Ala Pro Ser Ser Pro Pro Ala Leu
210 215 220

Pro
225

<210> 5267
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5267
Xaa Phe Cys Val Ala Gly Ala Ala Ala Leu Ser Val Ala Ser Leu Cys
1 5 10 15

Trp Cys Arg Leu Gln Arg Glu Ile Arg Leu Thr Gln Lys Ala Asp Tyr
20 25 30

Ala Thr Ala Lys Ala Pro Gly Ser Pro Ala Ala Pro Arg Ile Ser Pro
35 40 45

Gly Asp Gln Arg Leu Ala Gln Ser Ala Glu Met Tyr His Tyr Gln His
50 55 60

Gln Arg Gln Gln Met Leu Cys Leu Glu Arg Xaa Glu Val Gly Xaa Xaa
65 70 75 80

Pro Thr Ser Arg Leu Gly His Trp His Leu Glu Gly Met Gly Arg Thr
85 90 95

Gln Arg Ser Pro Pro Thr Gln Ala

100

<210> 5268
<211> 86
<212> PRT
<213> Homo sapiens

<400> 5268
Glu Pro His Leu Ser Met Cys Lys Arg Cys Ile Pro Arg Pro Val Asn
1 5 10 15

Gly Ser Leu Arg Lys Phe Cys Met Gln Ala Val Phe Ser Ser Arg Thr
20 25 30

Asn Asn Trp Glu Ile Ser Lys Lys Leu His Arg Ser Pro Ala Trp Cys
35 40 45

Cys Ser Ser Leu Tyr Phe Thr Leu Asn Ser Gly Trp Glu Glu Lys Gly
50 55 60

Asn Lys Leu Trp Leu Phe Pro Ser Gln Lys Tyr Cys Gly Thr Ser Thr
65 70 75 80

Phe Gln Cys Phe Ala Phe
85

<210> 5269
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5269
His Cys Glu Cys Cys Ser Asp Ile Leu Tyr Arg His Leu Thr Ala Gln
1 5 10 15

Asn Phe Cys Phe Ile Ser Cys Leu Thr Tyr Gln Lys Gly Arg Lys Val
20 25 30

Gly Met Ile Ser Lys Val Lys Lys Lys Lys Lys Lys Thr Phe Tyr
35 40 45

Arg Lys Leu Ile Asn Asn His Val Ile Leu Gln Phe Cys Tyr Gln Asn
50 55 60

Phe Pro Gln Glu Phe Ser Asn Ile Ser Ser Ala Met Trp Leu
65 70 75

<210> 5270
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5270
Arg Pro Val Arg Thr Tyr Xaa Ala Lys Leu Leu Ala Phe Gly Ile Pro
1 5 10 15

Leu Asp Asn Val Gly Phe Lys Pro Leu Glu Thr Ala Val Ile Gly Gln
20 25 30

Thr Leu Gly Gln Gly Pro Ala Gly Leu Val Gly Thr Pro Thr
35 40 45

<210> 5271
<211> 49
<212> PRT
<213> Homo sapiens

<400> 5271
Lys Ile Phe Cys Arg Asp Lys Leu Ser Leu Cys Phe Pro Gly Trp Ser
1 5 10 15

Arg Thr Ser Gly Leu Lys Arg Phe Phe Cys Leu Ser Leu Gln Asn Tyr
20 25 30

Trp Asp Tyr Ser Met Ser His His Ala Gln Leu Tyr Ser Leu Leu Ile
35 40 45

Tyr

<210> 5272
<211> 68
<212> PRT
<213> Homo sapiens

<400> 5272
Lys Glu Ala Val Phe Pro Arg Lys Thr His Gln Pro Gly Leu Arg Lys

```
 1               5                  10                  15

Lys Met Gly Pro Pro Ser Glu Gly Met Trp Trp Trp Lys His Ser Thr
            20                  25                  30

Gly Pro Gly Phe Gly Ala Ser Phe Pro Pro Pro Gln Pro Met Leu Thr
        35                  40                  45

Leu Pro Gly Lys Ala Pro Gly Ser Pro Gln Gly Arg Arg Lys Lys Arg
    50                  55                  60

Gly Leu Cys Ser
65
```

<210> 5273
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5273

```
Arg Thr Lys Arg Thr His Ala Gly Gly Arg Ser Arg Xaa Val Asp Pro
 1               5                  10                  15

Arg Ala Ala Glu Phe Gly Thr Ala Arg Leu Gly Ser Leu Cys Lys Thr
            20                  25                  30

Ser Pro Phe Leu Glu Met Met Met Pro Ser Lys Pro Gly Pro Gly Pro
        35                  40                  45

Asp Leu Gln Ala His Thr Trp Pro Val Ala Leu Arg Ser Pro Gly
    50                  55                  60
```

<210> 5274
<211> 257
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (256)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5274
Cys Ser Ile Asn Gly Thr Leu Tyr Gln Pro Gly Ala Val Val Ser Ser
1 5 10 15

Ser Leu Cys Glu Thr Cys Arg Cys Glu Leu Pro Gly Gly Pro Pro Ser
20 25 30

Asp Ala Phe Val Val Ser Cys Glu Thr Gln Ile Cys Asn Thr His Cys
35 40 45

Pro Val Gly Phe Glu Tyr Gln Glu Gln Ser Gly Gln Cys Cys Gly Thr
50 55 60

Cys Val Gln Val Ala Cys Val Thr Asn Thr Ser Lys Ser Pro Ala His
65 70 75 80

Leu Phe Tyr Pro Gly Glu Thr Trp Ser Asp Ala Gly Asn His Cys Val
85 90 95

Thr His Gln Cys Glu Lys His Gln Asp Gly Leu Val Val Val Thr Thr
100 105 110

Lys Lys Ala Cys Pro Pro Leu Xaa Cys Ser Leu Asp Glu Ala Arg Met
115 120 125

Ser Lys Asp Gly Cys Cys Arg Phe Cys Pro Xaa Pro Xaa Pro Pro Tyr
130 135 140

Gln Asn Gln Ser Thr Cys Ala Val Tyr His Arg Ser Leu Ile Ile Gln
145 150 155 160

Gln Gln Gly Cys Ser Ser Ser Glu Pro Val Arg Leu Ala Tyr Cys Arg
165 170 175

Gly Asn Cys Gly Asp Ser Ser Ser Met Tyr Ser Leu Glu Gly Asn Thr
180 185 190

```
Val Glu His Arg Cys Gln Cys Cys Gln Glu Leu Arg Thr Ser Leu Arg
        195                 200                 205

Asn Val Thr Leu His Cys Thr Asp Gly Ser Ser Arg Ala Phe Ser Tyr
    210                 215                 220

Thr Glu Val Glu Glu Cys Gly Cys Met Gly Arg Arg Cys Pro Ala Pro
225                 230                 235                 240

Gly Asp Thr Gln His Ser Glu Glu Ala Glu Pro Glu Pro Ser Gln Xaa
                245                 250                 255

Ala
```

<210> 5275
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5275

```
Asn Phe Lys Ser Ile His Phe Thr His Leu Phe Cys Leu Phe Thr Lys
  1               5                  10                  15

Leu Phe Leu Lys Arg Ala Leu Cys His Gln Asn Met Leu Asp Leu Ile
             20                  25                  30

Ile Leu Arg Ser Leu Leu Ser Lys Tyr Leu Val Tyr Ile Phe Ser Leu
         35                  40                  45

Ala Asn Leu Cys Val Tyr Ile His Ser Ile
     50                  55
```

<210> 5276
<211> 205
<212> PRT
<213> Homo sapiens

<400> 5276

```
Asn Ser Ala Glu Ala Val Glu Arg Asn Leu Val Arg Val Ala Glu Val
  1               5                  10                  15

Trp Leu Asp Glu Tyr Lys Glu Leu Phe Tyr Gly His Gly Asp His Leu
             20                  25                  30

Ile Asp Gln Gly Leu Asp Val Gly Asn Leu Thr Gln Gln Arg Glu Leu
```

```
         35                  40                  45

Arg Lys Lys Leu Lys Cys Lys Ser Phe Lys Trp Tyr Leu Glu Asn Val
     50                  55                  60

Phe Pro Asp Leu Arg Ala Pro Ile Val Arg Ala Ser Gly Val Leu Ile
 65                  70                  75                  80

Asn Val Ala Leu Gly Lys Cys Ile Ser Ile Glu Asn Thr Thr Val Ile
                 85                  90                  95

Leu Glu Asp Cys Asp Gly Ser Lys Glu Leu Gln Gln Phe Asn Tyr Thr
            100                 105                 110

Trp Leu Arg Leu Ile Lys Cys Gly Glu Trp Cys Ile Ala Pro Ile Pro
        115                 120                 125

Asp Lys Gly Ala Val Arg Leu His Pro Cys Asp Asn Arg Asn Lys Gly
    130                 135                 140

Leu Lys Trp Leu His Lys Ser Thr Ser Val Phe His Pro Glu Leu Val
145                 150                 155                 160

Asn His Ile Val Phe Glu Asn Asn Gln Gln Leu Leu Cys Leu Glu Gly
                165                 170                 175

Asn Phe Ser Gln Lys Ile Leu Lys Val Ala Ala Cys Asp Pro Val Lys
            180                 185                 190

Pro Tyr Gln Lys Trp Lys Phe Glu Lys Tyr Tyr Glu Ala
        195                 200                 205



<210> 5277
<211> 188
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5277

```
Pro Leu Ala Met Asp Ser Gln Lys Glu Ala Leu Gln Arg Ile Ile Ser
  1               5                  10                  15

Thr Leu Ala Asn Lys Asn Asp Glu Ile Gln Asn Phe Ile Asp Thr Leu
             20                  25                  30

His His Thr Leu Lys Gly Val Gln Glu Asn Ser Ser Asn Ile Leu Ser
         35                  40                  45

Glu Leu Asp Glu Glu Phe Asp Ser Leu Tyr Ser Ile Leu Asp Glu Val
     50                  55                  60

Lys Glu Ser Met Ile Asn Cys Ile Lys Gln Glu Gln Ala Arg Lys Ser
 65                  70                  75                  80

Gln Glu Leu Gln Ser Gln Ile Ser Gln Cys Asn Asn Ala Leu Glu Asn
                 85                  90                  95

Ser Glu Glu Leu Leu Glu Phe Ala Thr Arg Ser Leu Asp Ile Lys Glu
            100                 105                 110

Pro Glu Glu Phe Ser Lys Ala Ala Arg Gln Ile Lys Asp Arg Val Thr
        115                 120                 125

Met Ala Ser Ala Phe Arg Leu Ser Leu Lys Pro Lys Val Ser Asp Asn
    130                 135                 140

Met Thr His Leu Met Val Asp Phe Ser Gln Glu Arg Gln Met Leu Gln
145                 150                 155                 160

Thr Leu Lys Phe Phe Ala Ser Pro Gln Xaa Ser Xaa Ile Asp Pro Val
                165                 170                 175

Xaa Ile Val Trp Val Gly Xaa Ile Thr Ser Cys Xaa
            180                 185
```

<210> 5278
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5278
Phe Lys Ala Ile Asp Asp Leu Tyr Val Gln Ile Lys Glu Lys His Val
1 5 10 15

Trp Glu Lys Asp Cys His Phe Tyr Val Asn Xaa Lys Val Leu Ser Glu
20 25 30

Leu Tyr Leu Lys Lys Arg Arg Phe Tyr Lys Ser Lys Glu Ser Leu Asn
35 40 45

Thr Met Asn Lys Gly
50

<210> 5279
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5279
Ile Ile Tyr Ile Phe Leu Lys Pro Glu Leu Lys Met Leu Gln Ala Thr
1 5 10 15

Gly Tyr Ser Phe Ile Ser Gly Ser Leu Thr Val Val Ser Leu Gly Gln
20 25 30

Ala Ile Ser Leu Lys Glu Lys Leu Ile Met Tyr Val Gly Cys Gln Asp
35 40 45

His Cys Leu Glu Ser Lys Cys Asp Phe Tyr Phe
50 55

<210> 5280
<211> 84
<212> PRT
<213> Homo sapiens

<400> 5280
Asn Leu Ser Val Ala Leu Cys Leu Cys Ser Pro Gln Arg Lys Val Thr
1 5 10 15

Arg Arg Gly Val Gln Phe Pro Arg Pro Gly Pro Tyr Arg Pro Pro Thr
20 25 30

Gly Ala Pro Leu Cys Cys Tyr Ser Phe Cys Gln Leu Glu Ala Asp Gly
35 40 45

Asp Gln Ala Leu Glu Lys Ala Arg Pro Glu Asp Gly Arg Phe Leu Ser
50 55 60

Gly Gly Glu Leu Cys Leu Thr Asp Leu Asn Ile His Ser Val Leu Leu
65 70 75 80

Cys Glu Asn Lys

<210> 5281
<211> 114
<212> PRT
<213> Homo sapiens

<400> 5281
Ser Lys Gly Ile Leu Val Phe Asn Leu Asp Arg Leu Arg Cys Gln Glu
1 5 10 15

Lys Leu Gln Ser Gln Val Ser Arg Gln Pro Pro Gly Trp Ser Leu Ala
20 25 30

Pro Pro Pro Pro Pro Leu Pro Thr Phe Ser Asn Val Leu His Ala Gly
35 40 45

Ser Trp Gly Val Trp Gly Lys Gly Leu Pro Ala Ser Phe Arg Arg Leu
50 55 60

Arg Phe Gly Gly Lys Ile Asn Leu Gly Asp His Pro Gly Arg Gly Ala
65 70 75 80

Ser Val Asp Arg Trp Glu Glu Lys Lys Thr Ser Tyr Leu Gly Gly Gly
85 90 95

Thr Ser Arg Phe Leu Ile Leu Ser Phe Phe Val Ala Pro Pro His Cys
100 105 110

Pro Phe

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5284

```
Lys Thr Tyr Lys Ile Gln Arg Ser Tyr Arg Ser Cys Ala Leu Tyr Asn
  1               5                  10                  15

Val Ile Ile Val Thr Lys Gly Leu Ser Thr Trp Lys Phe Leu Asn Asp
             20                  25                  30

Leu Leu Asn Asn Ser Phe Lys Gly Glu Ile Lys Ile Asn Cys Lys Leu
         35                  40                  45

Phe Arg Ile Asn Lys Asn Phe Ser Lys Ala Glu Glu Phe Tyr Xaa Arg
     50                  55                  60

Gly Val Arg Gly Asn Cys Ile Asp Phe Xaa Leu Leu Xaa Xaa Glu Glu
 65                  70                  75                  80
```

Arg Lys Xaa Lys Glu Xaa Ile Lys Xaa Phe Lys Ser
85 90

<210> 5285
<211> 557
<212> PRT
<213> Homo sapiens

<400> 5285
Arg Ala Cys Ala Leu Val Arg Ser Arg Arg Trp Gly Pro Asn Gln Pro
1 5 10 15

Arg Leu Arg Gly Pro Gln Ser Arg Thr Lys Thr Glu Gly Gly Ala Ala
20 25 30

Ser Gly Leu Arg Arg Leu His Thr Glu Arg Ala Pro Gly Pro Glu Gly
35 40 45

Ala Met Leu Trp Phe Gln Gly Ala Ile Pro Ala Ala Ile Ala Thr Ala
50 55 60

Lys Arg Ser Gly Ala Val Phe Val Val Phe Val Ala Gly Asp Asp Glu
65 70 75 80

Gln Ser Thr Gln Met Ala Ala Ser Trp Glu Asp Asp Lys Val Thr Glu
85 90 95

Ala Ser Ser Asn Ser Phe Val Ala Ile Lys Ile Asp Thr Lys Ser Glu
100 105 110

Ala Cys Leu Gln Phe Ser Gln Ile Tyr Pro Val Val Cys Val Pro Ser
115 120 125

Ser Phe Phe Ile Gly Asp Ser Gly Ile Pro Leu Glu Val Ile Ala Gly
130 135 140

Ser Val Ser Ala Asp Glu Leu Val Thr Arg Ile His Lys Val Arg Gln
145 150 155 160

Met His Leu Leu Lys Ser Glu Thr Ser Val Ala Asn Gly Ser Gln Ser
165 170 175

Glu Ser Ser Val Ser Thr Pro Ser Ala Ser Phe Glu Pro Asn Asn Thr
180 185 190

Cys Glu Asn Ser Gln Ser Arg Asn Ala Glu Leu Cys Glu Ile Pro Pro
195 200 205

```
Phe Leu Phe Ser Asn Pro Pro Pro Thr Gln Thr Ser Val Arg Val Thr
                485                 490                 495

Ser Ser Glu Pro Pro Asn Pro Ala Ser Ser Ser Lys Ser Glu Lys Arg
            500                 505                 510

Glu Pro Val Arg Lys Arg Val Leu Glu Lys Arg Gly Asp Asp Phe Lys
        515                 520                 525

Lys Glu Gly Lys Ile Tyr Arg Leu Arg Thr Gln Asp Asp Gly Glu Asp
    530                 535                 540

Glu Asn Asn Thr Trp Asn Gly Asn Ser Thr Gln Gln Met
545                 550                 555
```

<210> 5286
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5286

```
Asn Asp Gln Asn Pro Glu Ser Gln Trp Ser Asn Asn Lys His Thr Gln
  1               5                  10                  15

Ile Asp Cys Leu Ile Asn Ser Phe Xaa Leu Val Phe Lys Ser Asn Thr
             20                  25                  30

Phe Phe Lys Ser Pro Leu Xaa Lys Met Ile Ile
         35                  40
```

<210> 5287
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5287

```
Thr Gly Trp Xaa Xaa Cys Pro Xaa Pro Gly Pro Gly Arg Arg Thr Met
  1               5                  10                  15

Ser Arg Gln Lys Glu Thr Leu Gln Ser Ala Phe Pro Ser Met Cys Ala
             20                  25                  30

Leu Cys Pro Ser Glu Pro Ala Asp Xaa Arg Gly Gly Lys Asp Thr Val
         35                  40                  45

Leu Asn Glu Gln Asn Leu Gln Asp Thr Gln Ser Cys Leu Phe Ala Thr
     50                  55                  60

Trp Pro Tyr Ala Cys Pro Val Phe Ser Leu Lys Ala Phe Thr His Ala
 65                  70                  75                  80

Arg Ala Val Thr Trp Asn Val Leu Ser Ile Thr Pro Ala Val Met Pro
                 85                  90                  95

Ser Thr Glu Leu Asp Gly Arg Pro Leu His Gly Ser Leu Lys Arg Ser
            100                 105                 110

His Pro Ser Asn Trp Val Cys His Arg His Thr Gly Ser Cys Leu Pro
        115                 120                 125

Val Leu Pro Val Val Ile Val Met Arg Ile Val Val Leu His Pro
    130                 135                 140
```

<210> 5288
<211> 48
<212> PRT

<213> Homo sapiens

<400> 5288

```
Ser Gly Gln Glu Pro Gly Phe Gln Gln Arg Glu Leu Glu Asn Glu Pro
  1               5                  10                  15

Arg Gly Ala Gly Ala Gly Gly Val Gly Glu Cys Gln Arg Ala Gly Met
             20                  25                  30

Asn Trp Gln Val Ala Trp Arg Gly Gly Leu Val Pro Lys Pro Val Leu
         35                  40                  45
```

<210> 5289
<211> 232
<212> PRT
<213> Homo sapiens

<400> 5289

```
Pro Ala Ser Ala Thr Thr Arg Thr Gly Pro Arg Pro Gly Pro Ala Pro
  1               5                  10                  15

Arg Cys Pro Leu Pro Ala Pro Gly His Ser Cys Thr Gln Ala Pro Pro
             20                  25                  30

Arg Glu His Thr Ala Val His Thr Arg Glu Lys Gln Gln Leu Ala Ser
         35                  40                  45

Leu Val Gly Thr Met Leu Ala Tyr Ser Leu Thr Tyr Arg Gln Glu Arg
     50                  55                  60

Thr Pro Asp Gly Gln Tyr Ile Tyr Arg Leu Glu Pro Asn Val Glu Glu
 65                  70                  75                  80

Leu Cys Arg Phe Pro Glu Leu Pro Ala Arg Lys Pro Leu Thr Tyr Gln
                 85                  90                  95

Thr Lys Gln Leu Ile Ala Arg Glu Ile Glu Val Glu Lys Met Arg Arg
            100                 105                 110

Ala Glu Ala Ser Ala Arg Val Glu Asn Ser Pro Gln Val Asp Gly Ser
        115                 120                 125

Pro Pro Gly Leu Glu Gly Leu Leu Gly Gly Ile Gly Glu Lys Gly Val
    130                 135                 140

His Arg Pro Ala Pro Arg Asn His Glu Gln Arg Leu Glu His Ile Met
```

```
145                 150                 155                 160

Arg Arg Ala Ala Arg Glu Glu Gln Pro Glu Lys Asp Phe Phe Gly Arg
                165                 170                 175

Val Val Val Arg Ser Thr Ala Val Pro Ser Ala Gly Asp Thr Ala Pro
            180                 185                 190

Glu Gln Asp Ser Val Glu Arg Arg Met Gly Thr Ala Val Gly Arg Ser
        195                 200                 205

Glu Val Trp Phe Arg Phe Asn Glu Gly Val Ser Asn Ala Val Arg Arg
    210                 215                 220

Ser Leu Tyr Ile Arg Asp Leu Leu
225                 230
```

<210> 5290
<211> 92
<212> PRT
<213> Homo sapiens

<400> 5290

```
Ser Ile Thr Cys His Arg Glu Ser Glu Phe Leu Tyr Cys Leu Pro Ala
  1               5                  10                  15

Ala Arg Thr Lys Ser Glu Trp Trp Gly Pro Arg Ser Ser Gln Leu Gly
             20                  25                  30

Glu Lys Ala Leu Pro Asp Pro Gly Thr Arg Gly Leu Gly Gln Glu Ala
         35                  40                  45

Gly Arg Met Gly Gly Cys Asp His Arg His Thr His Thr Arg Ser Leu
     50                  55                  60

Ser Ser Gly Lys Gly Phe Pro Glu Ala Phe Ala His Thr Leu Asn Glu
 65                  70                  75                  80

Val Phe Ser Cys Gln Ala Lys Pro Pro Glu Glu Lys
                 85                  90
```

<210> 5291
<211> 40
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5291
Thr Ile Lys Cys Leu Leu Leu Tyr Lys Lys Lys Lys Lys Lys Lys Lys
1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
20 25 30

Lys Lys Lys Lys Gly Xaa Pro Xaa
35 40

<210> 5292
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5292
Val Glu Asn Leu Gln Arg Asn Asp Gly Cys Lys Trp Thr Cys Lys Pro
1 5 10 15

Lys Leu Gly Ile Gly Glu Val Arg Leu Thr Arg Leu Leu Val Arg Val
20 25 30

Leu Leu Asn Ser Leu Leu Met Arg Arg Cys Leu Asp Lys Tyr Lys Leu
35 40 45

Arg Lys
50

<210> 5293
<211> 57
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5293
Lys Pro Leu Ala Lys Xaa Arg Gly Ile Phe Phe Phe Ile Phe Lys Cys
1 5 10 15

Leu Gly Thr Lys Pro Lys Ser Lys Arg Leu Thr Lys His Val Ser Leu
20 25 30

Lys Ala Thr Cys Ile Leu Gln Tyr Asn Ile Lys Leu Phe Asn Leu Arg
35 40 45

Asn Leu Val Leu Leu Ile Cys Thr Phe
50 55

<210> 5294
<211> 40
<212> PRT
<213> Homo sapiens

<400> 5294
Arg Thr Phe Met Lys Arg Trp Asn Cys Ser Tyr Lys Phe Phe Leu Leu
1 5 10 15

Leu Leu Phe Leu Asn Met Pro Trp Asn Asn Ser Thr Ile Phe Ser Pro
20 25 30

Ser Ile Asn Leu Ser Asn Lys Ala
35 40

<210> 5295
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5295
Asn Cys Glu Asp Ile Leu Lys Leu Cys Leu Val Tyr Lys Tyr Lys Asp
1 5 10 15

Phe His Thr Asp Asn Tyr Gln Ile Pro Asn Thr Phe Thr Gly Lys Lys
20 25 30

Pro Ser Val Lys Xaa Leu Pro Gly Ser Ser Ser Leu Lys Phe Ser Xaa
35 40 45

Xaa

<210> 5296
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5296
Thr Thr Leu Xaa Arg Arg Ser Ser Leu Leu Asn Tyr Ile His Pro Asp
1 5 10 15

Cys Gly Asp Asn His Thr Pro Gln Phe Arg Xaa Tyr Tyr Tyr Tyr Gln

20 25 30

Ser Val Gln Gly Leu Cys Trp Leu Ile Leu Phe Phe Tyr Pro Leu Tyr
35 40 45

His Tyr Ser Pro Ile Ser Ser Xaa Thr Phe Ile Ser Lys Asn Leu Ile
50 55 60

Val Trp His Leu Ser Leu Asp Met Glu Cys Phe Phe Xaa Lys Xaa
65 70 75

<210> 5297
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5297
Met Phe Gly Leu Tyr Leu Val Leu Asp Pro Glu Leu Pro Phe Ser Lys
1 5 10 15

Tyr Leu Asn Asp Tyr Tyr Tyr Phe Ile Ser Leu Phe Tyr Thr His Thr
20 25 30

Arg Thr His Thr His Arg Glu Met Leu Phe Met Arg Phe Cys Ile Phe
35 40 45

His Ile Leu His Ile Leu Tyr Met Ile Asp Glu
50 55

<210> 5298
<211> 183
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5298

```
Gln Gly Phe Glu Arg Gln Thr Thr Ala Ala Val Gly Val Leu Lys Ala
  1               5                  10                  15

Val His Cys Gly Glu Trp Pro Asp Gln Pro Arg Leu Thr Lys Asp Val
             20                  25                  30

Ile Cys Phe His Ala Glu Asp Phe Leu Glu Val Val Gln Arg Met Gln
         35                  40                  45

Leu Asp Leu His Glu Pro Pro Leu Ser Gln Cys Val Gln Trp Val Asp
     50                  55                  60

Asp Ala Lys Leu Asn Gln Leu Arg Arg Glu Gly Ile Arg Tyr Ala Arg
 65                  70                  75                  80

Ile Gln Leu Tyr Asp Asn Asp Ile Tyr Phe Ile Pro Arg Asn Val Val
                 85                  90                  95

His Gln Phe Lys Thr Val Ser Ala Val Cys Xaa Leu Ala Trp Xaa Ile
            100                 105                 110

Arg Leu Lys Leu Tyr His Ser Glu Glu Asp Xaa Ser Gln Asn Thr Ala
        115                 120                 125

Thr His Glu Thr Gly Thr Ser Ser Asp Ser Thr Ser Ser Val Leu Gly
    130                 135                 140

Pro His Thr Asp Asn Met Ile Cys Ala Val Ser Lys Pro Pro Trp Ile
145                 150                 155                 160

Leu Phe Phe Gln Ile Asn Phe Ile Leu Asn Met Asn Tyr Ser Arg Leu
                165                 170                 175

Asn Met Asn Leu Leu His Leu
            180
```

<210> 5299
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5299
Ile Ser His Phe Trp Glu Gln Thr Pro Ile Lys Val Pro Gly Asp Tyr
1 5 10 15

Leu Gln Trp Xaa Ala Glu Gln Lys Ile Ser Ala Val Leu Ile Ile Val
20 25 30

Val Thr Trp Val Thr Pro Pro Asn Thr Leu Cys Glu Leu Ser Glu Ile
35 40 45

Phe Gly Asn Phe Leu Met Tyr Ile Leu Glu Ile Leu Asn Val Gln Ile
50 55 60

Trp Ser Ser Ile
65

<210> 5300
<211> 93
<212> PRT
<213> Homo sapiens

<400> 5300
Trp Gln Ser Val His Arg Ser Trp Leu Leu Ser Leu Leu Asn Leu Cys
1 5 10 15

Lys Arg Ser Leu Ser Asp Glu Gly Arg Ile Met Val Leu Leu Ala Leu
20 25 30

Ala Phe Pro Phe Cys Asp Leu Lys Ala Ser Ser Leu Arg Pro His Ser
35 40 45

Met Ala Pro Val Pro Tyr Ser His Ser Cys Leu Leu Lys Leu Pro Thr
50 55 60

Leu Leu Asn Cys Phe Trp Gly Glu Glu His Phe Phe Leu Lys Gln Asn
65 70 75 80

Arg Tyr Met Lys Gln Tyr Thr Gly Ile Asn Thr Asn Ile
85 90

<210> 5301
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5301
Phe Ser Pro Lys Ala Val Leu Leu Arg Leu Cys Phe Thr Ser Ile Tyr
1 5 10 15

Lys Leu Tyr Val Lys Cys Cys His Lys Glu Val Ser Glu Ala Val Gly
20 25 30

His Thr Gln Gly Arg Ala Glu Lys Tyr Leu Val Val Cys Xaa Xaa Xaa
35 40 45

Lys Pro Trp Met Ala Ala Ala Thr Xaa Pro Ala Tyr Pro Phe Thr Ala
50 55 60

Xaa Val Tyr Ser Leu Arg Xaa Leu Thr Thr Arg
65 70 75

<210> 5302
<211> 82
<212> PRT
<213> Homo sapiens

<400> 5302
Glu Leu Pro Ser Lys Arg Gln Ala Phe Val Ile Ser Met Glu Phe Glu
1 5 10 15

Gly Ser Trp Thr Ile Cys Lys Asp Ile Leu Thr Cys Ser Leu Arg Ser
20 25 30

Leu Ser Ser Ser Lys Arg Met Ala Arg Val Cys Gly Ile Ile Leu Ser
35 40 45

Thr Tyr Cys Cys Phe Phe Val Val Leu Leu Met Gln Val Ile Ile Tyr
50 55 60

Phe Leu Gly Val Ile Trp Arg Lys Ser Met Arg Gln Ala Cys Phe Ser
65 70 75 80

Pro Val

<210> 5303
<211> 272
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5303
Asp Cys Val Thr Glu Leu Ser Val His His Arg Asn Asn Arg Gln Thr
1 5 10 15

Met Glu Asp Leu Ile Ser Leu Trp Gln Tyr Asp His Leu Thr Ala Thr
20 25 30

Tyr Leu Leu Leu Leu Ala Lys Lys Ala Arg Gly Lys Pro Val Arg Leu
35 40 45

Arg Leu Ser Ser Phe Ser Cys Gly Gln Ala Ser Ala Thr Pro Phe Thr
50 55 60

Asp Ile Lys Ser Asn Asn Trp Ser Leu Glu Asp Val Thr Ala Ser Asp
65 70 75 80

Lys Asn Tyr Val Ala Gly Leu Ile Asp Tyr Asp Trp Cys Glu Asp Asp
85 90 95

Leu Ser Thr Gly Ala Ala Thr Pro Arg Thr Ser Gln Phe Thr Lys Tyr

```
            100                 105                 110

Trp Thr Glu Ser Asn Gly Val Glu Ser Lys Ser Leu Thr Pro Ala Leu
        115                 120                 125

Cys Arg Thr Pro Ala Asn Lys Leu Lys Asn Lys Glu Asn Val Tyr Thr
    130                 135                 140

Pro Lys Ser Ala Val Lys Asn Glu Glu Tyr Phe Met Phe Pro Glu Pro
145                 150                 155                 160

Lys Thr Pro Val Asn Lys Asn Gln His Lys Arg Glu Ile Leu Thr Thr
                165                 170                 175

Pro Asn Arg Tyr Thr Thr Pro Ser Lys Ala Arg Asn Gln Cys Leu Lys
            180                 185                 190

Glu Thr Pro Ile Lys Ile Pro Val Asn Ser Thr Gly Thr Asp Lys Leu
        195                 200                 205

Met Thr Gly Val Ile Ser Pro Glu Arg Arg Cys Xaa Gln Trp Asn Trp
    210                 215                 220

Ile Ser Thr Lys His Ile Trp Arg Arg Leu Gln Lys Glu Arg Glu Pro
225                 230                 235                 240

Lys Cys Leu Gly Ala Leu Lys Gly Gly Trp Ile Arg Leu Ser Leu Cys
                245                 250                 255

Ser Pro Gly Ala Lys Gly Arg Val Leu Pro Glu Thr Gly Pro Glu Asp
            260                 265                 270
```

<210> 5304
<211> 35
<212> PRT
<213> Homo sapiens

<400> 5304

```
Phe Leu Gly Ala Pro Ser Ile Cys Ala Gly Asp Glu Glu Gly Thr Glu
  1               5                  10                  15

Ile Asp Thr Leu Gln Phe Arg Leu Gln Val Arg Cys Thr Arg Glu Pro
             20                  25                  30

Pro Cys Cys
         35
```

<210> 5305
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5305
Asp Phe Leu Lys Gly Ser Lys Ala Phe Ala Cys Tyr Leu Cys Phe Phe
1 5 10 15

Ser Pro Lys Pro Lys Gln Lys Ile Met Pro Leu Cys Gln Thr Phe Leu
20 25 30

Leu Gly Thr Ser Thr Xaa Ser Gln Leu Xaa Lys Tyr Asn Val Tyr Ile
35 40 45

Ala Gln Phe Tyr Asn Leu Ser Met Ala Gln Ile Leu Glu Thr Tyr Lys
50 55 60

Leu Asp Asp His Arg Asp Ile Val Val Asn Ile Trp Ala Trp Asn Gln
65 70 75 80

Arg Thr Leu Gly Ser Asn Leu Ser Phe Lys Ser Lys Lys Leu Asn Ser
85 90 95

Leu Ala Glu

<210> 5306
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5306
Arg Phe Asn Phe Pro Ala Ser Pro Glu Ala Arg Tyr Gly His Asn Thr
1 5 10 15

Lys Phe Cys Pro Arg Arg Leu Ser Lys Ile Val Trp Asp Phe Gln Glu
20 25 30

Met Phe Leu Lys Ser Xaa Ala Gly Leu Ser Ser Cys Leu Leu Pro Leu
35 40 45

Cys Trp Leu Glu Xaa Lys Asp His Gly Arg Arg Pro Ser Ser His Pro
50 55 60

Gly Arg
65

<210> 5307
<211> 148
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5307
Val Leu Tyr His Cys Ala Ser Arg Tyr Arg Arg Arg Ala Arg Gln Thr
1 5 10 15

Cys Xaa Pro Ser Tyr Thr Arg Ser Ala Asp Leu Pro Ser Arg Thr Pro
20 25 30

Pro Val Glu Asp Leu Leu Glu Leu Ser Arg Ala Phe Trp Val Gly Ala
35 40 45

Asp Gly Gly Gly Arg Val Arg Val Leu Gly Gly Thr Glu Ala His Glu
50 55 60

Asp Gly Ile Pro Pro Glu Ser Met Asp His Tyr Ala Asp Gly His Arg
65 70 75 80

Pro Gln His Cys His Leu Gly Tyr Arg Cys His Gly Arg Pro Gln Arg

```
                85                  90                  95

Glu Gly Leu Pro Arg Cys Leu Lys Val Pro Pro Val Asn Leu Ser Ser
            100                 105                 110

Val Ser Val Pro Phe Pro Val Thr His Arg Ala Gly Met Glu Phe Asn
        115                 120                 125

Gly Cys Ser Gly Gln Thr Leu Val His Gly Gln Thr Ser Leu Leu Trp
    130                 135                 140

Ile Leu Gln Asp
145
```

<210> 5308
<211> 77
<212> PRT
<213> Homo sapiens

<400> 5308

```
Met Lys Ile Phe Lys Leu Glu Leu Glu Glu Gly Val Val Glu Glu Gln
  1               5                  10                  15

Gly Val Leu Leu His Pro Glu Val Val Gly Leu Leu Leu Pro Ala Val
             20                  25                  30

Glu Pro Val Ile His Arg Glu Glu Val Leu Asp Gln Gln Glu Ala Phe
         35                  40                  45

Glu Val Arg Glu Glu Val Pro Asn Asn Lys Glu Ala Ala Gly Arg Glu
     50                  55                  60

Lys Gly Ser Arg Pro Val Leu Thr Cys Tyr Asn Glu Asp
 65                  70                  75
```

<210> 5309
<211> 704
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5309

```
Xaa Gly Xaa Lys Gly Arg Glu Gly Lys Gly Gly Ser Arg Gly Gly Ala
 1               5                  10                  15

Arg Ala His Arg Glu Arg Ala Arg Arg Arg Val Glu Leu Asp Arg Val
            20                  25                  30

Cys Cys Gln Arg Arg Glu Leu Arg Pro Pro Phe Tyr Asn Ser Ser Thr
        35                  40                  45

Arg Ala Gly His Arg Glu Gln Arg Ala Arg Val Ser Arg Asn Pro Ile
    50                  55                  60

Pro Ser Asp Arg Ile Ser Pro Pro Gln Pro Asn Gly Glu Ile Ser Gly
65                  70                  75                  80

Asn Met Ala Thr Glu His Val Asn Gly Asn Gly Thr Glu Glu Pro Met
                85                  90                  95

Asp Thr Thr Ser Ala Val Ile His Ser Glu Asn Phe Gln Thr Leu Leu
            100                 105                 110

Asp Ala Gly Leu Pro Gln Lys Val Ala Glu Lys Leu Asp Glu Ile Tyr
        115                 120                 125

Val Ala Gly Leu Val Ala His Ser Asp Leu Asp Glu Arg Ala Ile Glu
    130                 135                 140

Ala Leu Lys Glu Phe Asn Glu Asp Gly Ala Leu Ala Val Leu Gln Gln
145                 150                 155                 160

Phe Lys Asp Ser Asp Leu Ser His Val Gln Asn Lys Ser Ala Phe Leu
                165                 170                 175

Cys Gly Val Met Lys Thr Tyr Arg Gln Arg Glu Lys Gln Gly Thr Lys
            180                 185                 190

Val Ala Asp Ser Ser Lys Gly Pro Asp Glu Ala Lys Ile Lys Ala Leu
        195                 200                 205

Leu Glu Arg Thr Gly Tyr Thr Leu Asp Val Thr Thr Gly Gln Arg Lys
    210                 215                 220

Tyr Gly Gly Pro Pro Pro Asp Ser Val Tyr Ser Gly Gln Gln Pro Ser
225                 230                 235                 240

Val Gly Thr Glu Ile Phe Val Gly Lys Ile Pro Arg Asp Leu Phe Glu
                245                 250                 255
```

```
Asp Glu Leu Val Pro Leu Phe Glu Lys Ala Gly Pro Ile Trp Asp Leu
            260                 265                 270

Arg Leu Met Met Asp Pro Leu Thr Gly Leu Asn Arg Gly Tyr Ala Phe
        275                 280                 285

Val Thr Phe Cys Thr Lys Glu Ala Ala Gln Glu Ala Val Lys Leu Tyr
    290                 295                 300

Asn Asn His Glu Ile Arg Ser Gly Lys His Ile Gly Val Cys Ile Ser
305                 310                 315                 320

Val Ala Asn Asn Arg Leu Phe Val Gly Ser Ile Pro Lys Ser Lys Thr
                325                 330                 335

Lys Glu Gln Ile Leu Glu Glu Phe Ser Lys Val Thr Glu Gly Leu Thr
            340                 345                 350

Asp Val Ile Leu Tyr His Gln Pro Asp Asp Lys Lys Lys Asn Arg Gly
        355                 360                 365

Phe Cys Phe Leu Glu Tyr Glu Asp His Lys Thr Ala Ala Gln Ala Arg
    370                 375                 380

Arg Arg Leu Met Ser Gly Lys Val Lys Val Trp Gly Asn Val Gly Thr
385                 390                 395                 400

Val Glu Trp Ala Asp Pro Ile Glu Asp Pro Asp Pro Glu Val Met Ala
                405                 410                 415

Lys Val Lys Val Leu Phe Val Arg Asn Leu Ala Asn Thr Val Thr Glu
            420                 425                 430

Glu Ile Leu Glu Lys Ala Phe Ser Gln Phe Gly Lys Leu Glu Arg Val
        435                 440                 445

Lys Lys Leu Lys Asp Tyr Ala Phe Ile His Phe Asp Glu Arg Asp Gly
    450                 455                 460

Ala Val Lys Ala Met Glu Glu Met Asn Gly Lys Asp Leu Glu Gly Glu
465                 470                 475                 480

Asn Ile Glu Ile Val Phe Ala Lys Pro Pro Asp Gln Lys Arg Lys Glu
                485                 490                 495

Arg Lys Ala Gln Arg Gln Ala Ala Lys Asn Gln Met Tyr Asp Asp Tyr
            500                 505                 510

Tyr Tyr Tyr Gly Pro Pro His Met Pro Pro Pro Thr Arg Gly Arg Gly
        515                 520                 525
```

```
Arg Gly Gly Arg Gly Gly Tyr Gly Tyr Pro Pro Asp Tyr Tyr Gly Tyr
    530                 535                 540

Glu Asp Tyr Tyr Asp Tyr Tyr Gly Tyr Asp Tyr His Asn Tyr Arg Gly
545                 550                 555                 560

Gly Tyr Glu Asp Pro Tyr Tyr Gly Tyr Glu Asp Phe Gln Val Gly Ala
                565                 570                 575

Arg Gly Arg Gly Gly Arg Gly Ala Arg Gly Ala Ala Pro Ser Arg Gly
            580                 585                 590

Arg Gly Ala Ala Pro Pro Arg Gly Arg Ala Gly Tyr Ser Gln Arg Gly
        595                 600                 605

Gly Pro Gly Ser Ala Arg Gly Val Arg Gly Ala Arg Gly Gly Ala Gln
    610                 615                 620

Gln Gln Arg Gly Arg Gly Val Arg Gly Ala Arg Gly Gly Arg Gly Gly
625                 630                 635                 640

Asn Val Gly Gly Lys Arg Lys Ala Asp Gly Tyr Asn Gln Pro Asp Ser
                645                 650                 655

Lys Arg Arg Gln Thr Asn Asn Gln Asn Trp Gly Ser Gln Pro Ile Ala
            660                 665                 670

Gln Gln Pro Leu Gln Gly Gly Asp His Ser Gly Asn Tyr Gly Tyr Lys
        675                 680                 685

Ser Glu Asn Gln Glu Phe Tyr Gln Asp Thr Phe Gly Gln Gln Trp Lys
    690                 695                 700
```

<210> 5310
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5310
Asp Tyr Ala Leu Ser Asn Thr Thr Xaa Tyr Arg Glu Lys Leu Val Arg
1 5 10 15

Leu Gln Val Pro Val Arg Xaa Phe Pro Gly Arg Pro Thr Arg Pro Trp
20 25 30

Glu Thr Glu Gln Asp Ser Val Ser Lys Lys Asn Lys Asn Lys Asn Lys
35 40 45

Lys Thr Glu Gly Gln Ala Gln Val Lys Tyr Pro Ile Phe Ile Leu Ser
50 55 60

Arg Gly Ile Lys Lys
65

<210> 5311
<211> 116
<212> PRT
<213> Homo sapiens

<400> 5311
Cys Ser Asn Cys Pro Lys Leu Trp Pro Lys Lys Ala Pro Ser Asn Trp
1 5 10 15

Leu Leu Cys Pro Phe Asp Met Ala His His Ser Leu Asn Thr Phe Tyr
20 25 30

Ile Trp His Asn Asn Val Leu His Thr His Leu Val Phe Phe Leu Pro
35 40 45

His Leu Leu Asn Gln Pro Phe Ser Arg Gly Ser Phe Leu Ile Trp Leu
50 55 60

Leu Leu Cys Trp Asn Ser Trp Tyr His Leu Arg Thr Leu Arg Arg Gln
65 70 75 80

Ala Asn Gln Ala Asn Lys Leu Ser Met Met Leu Leu Arg Val Lys Gln
85 90 95

Ser Pro Gly Thr Lys Leu Cys His Gly Asp Ser Glu Leu Thr Ser Gly
100 105 110

Leu Leu Ala Thr
115

<210> 5312
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5312
Val Thr Ile Ile Ile Ser Ala Ser Pro Thr Gln Val Thr Leu Leu Gly
1 5 10 15

Ser Pro Val Cys Pro His Leu Glu Val Thr Ala Xaa Pro Trp Arg Trp
20 25 30

Asp Ser Ile Leu Ser Pro Gly Cys Leu Pro Pro Val Arg Arg Pro Val
35 40 45

Ser Trp Cys Val Thr Ser Gly Arg Cys Gln Ala Cys Phe Pro Pro Ser
50 55 60

Phe Pro Pro Gln Arg Ala Arg Thr Asn His Gln Cys His His Thr Ser
65 70 75 80

Xaa Trp Pro Glu Asn Phe Met Asp Xaa Phe Thr Cys Ala Ile Val Asn
85 90 95

Leu Arg Arg Pro
100

<210> 5313
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5313
Val Pro Gly Glu Ala Glu Leu Glu Arg Ala Val Glu Ala Phe Pro Leu
1 5 10 15

Leu Val Glu Ser Tyr Ala Pro His Ser Gly Ser Glu Leu Gln Leu Leu
20 25 30

Ser Arg Thr Thr Thr Glu Ser Gly Ile Arg Val Lys Asn Thr Ser Pro
35 40 45

Thr Pro Pro Leu Leu His Pro Arg Arg Phe His Val Phe Asn Leu
50 55 60

<210> 5314
<211> 269
<212> PRT
<213> Homo sapiens

<400> 5314
Asp Ser Gly Ser Cys Gly Pro Asp Pro Lys Cys Gly Asp Leu Arg Arg
1 5 10 15

Ile Lys Gly Leu Cys Lys Phe Ala Asn Met Phe Thr Leu Ser Gln Thr
20 25 30

Ser Arg Ala Trp Phe Ile Asp Arg Ala Arg Gln Ala Arg Glu Glu Arg
35 40 45

Leu Val Gln Lys Glu Arg Glu Arg Ala Ala Val Val Ile Gln Ala His
50 55 60

Val Arg Ser Phe Leu Cys Arg Ser Arg Leu Gln Arg Asp Ile Arg Arg
65 70 75 80

Glu Ile Asp Asp Phe Phe Lys Ala Asp Asp Pro Glu Ser Thr Lys Arg
85 90 95

Ser Ala Leu Cys Ile Phe Lys Ile Ala Arg Lys Leu Leu Phe Leu Phe
100 105 110

Arg Ile Lys Glu Asp Asn Glu Arg Phe Glu Lys Leu Cys Arg Ser Ile
115 120 125

Leu Ser Ser Met Asp Ala Glu Asn Glu Pro Lys Val Trp Tyr Val Ser
130 135 140

Leu Ala Cys Ser Lys Asp Leu Thr Leu Leu Trp Ile Gln Gln Ile Lys
145 150 155 160

```
Asn Ile Leu Trp Tyr Cys Cys Asp Phe Leu Lys Gln Leu Lys Pro Glu
                165                 170                 175

Ile Leu Gln Asp Ser Arg Leu Ile Thr Leu Tyr Leu Thr Met Leu Val
            180                 185                 190

Thr Phe Thr Asp Thr Ser Thr Trp Lys Ile Leu Arg Gly Lys Gly Glu
        195                 200                 205

Ser Leu Arg Pro Ala Met Asn His Ile Cys Ala Asn Ile Met Gly His
    210                 215                 220

Leu Asn Gln His Gly Phe Tyr Ser Val Leu Gln Cys Cys Asp Gly Leu
225                 230                 235                 240

Phe Pro Asp Leu Val Ser Tyr Ala Pro His Asn Asn Pro Val Arg Trp
                245                 250                 255

Ser Val Gly Arg Ser Trp Tyr Asp Trp Gln Leu Ser Arg
            260                 265
```

<210> 5315
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5315

```
Gly Gln Ala Arg Val Leu Pro Leu Met Gln Ile Pro Thr Arg Glu Met
  1               5                  10                  15

Ser Arg Gly Arg Leu Leu Ser Glu Xaa Leu Gln Pro Lys Gly Cys Ser
             20                  25                  30

Ile Ala Ile Pro Phe Pro Trp Ser Cys Gln Leu Phe Ser Gly Gln Gly
         35                  40                  45

Pro Trp Gly Arg Trp Ser Lys Pro Ser Pro Gln Ala Gly Gly Leu Glu
     50                  55                  60
```

Ser Thr Arg Lys Gly Ser Thr Trp Phe Tyr Glu Gly Ile Leu Gly Gly
65 70 75 80

Ala Thr Pro His Leu Pro Pro Thr Tyr Thr Phe Cys Cys Xaa Lys Cys
85 90 95

Leu Ile Pro His Asp Val Ser Leu Ser Phe Gln Gln Lys Lys Val Lys
100 105 110

Leu Trp Val Val Glu Pro
115

<210> 5316
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5316
Ala Glu Arg Ser Leu Lys Ile Leu Pro Leu Leu Lys Lys Leu Leu Lys
1 5 10 15

Ser Asn Asp His Glu Cys Met Leu Gly His Leu Cys Met Tyr Ile Gln
20 25 30

Ile Asp Arg Met Asp Phe Xaa Lys Asn Gly Ile Thr Ile Val Leu Gln
35 40 45

Trp Xaa Lys Lys Tyr Gly Ile Leu Pro His Ser Leu Asn Leu Gly Gly
50 55 60

Ile Gln Lys Ala Leu Leu Lys Pro Ser Asn Lys Leu Asp Gln Leu Ser
65 70 75 80

Leu Asp Leu

<210> 5317

<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5317
Leu Leu Arg Arg Gly Phe Ile Xaa Gly Phe Tyr Asn Ala Asn Val Val
1 5 10 15

Xaa Leu Arg Xaa Lys Asn Trp Gln Leu Glu Ser Leu Ser Leu Ile Ser
20 25 30

Lys Gly Asn Pro Asp Phe Phe Val Asn Tyr Val Arg Gln Val Xaa Tyr
35 40 45

Gly Phe Leu Tyr Glu Leu Gln Phe Thr Val His Gln Ile Leu Val Ser
50 55 60

Glu Glu Leu Ile Tyr Val Lys Cys Leu Lys Ile Tyr Thr
65 70 75

<210> 5318
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5318
Ser Pro Gly Gly Arg Ser Ser Leu Leu Leu Ser Pro Val Val Ser Arg
1 5 10 15

Thr Ser Cys Pro Asp Leu Pro Trp Ser Cys Leu Ser Asp Ser Leu His
20 25 30

Gln Gly His Pro Thr Ala Ser Lys Xaa Ala Phe Pro Trp Thr Asn Ala
35 40 45

Thr Ala Thr Phe Met Cys Glu Ala Lys Ile Thr Leu Gln Gln Ser Gln
50 55 60

Tyr
65

<210> 5319
<211> 132
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5319
Pro Ala Gly Glu Ser Ser Pro Ala Pro Trp Leu Lys Gly Pro Gly Ala
1 5 10 15

His Leu Pro Glu Ala Arg Cys Gly Gly Gly Pro Arg Gly Arg Ser Gln
20 25 30

Ala Gln Ser Pro Gln Ser Ser Gly Pro Val Gly Gly Arg Gly Arg Ser
35 40 45

Gly Ser Lys Ala Arg Thr Pro Gln Leu Phe Arg Leu Gln Gln Gln Leu
50 55 60

Gln Arg Phe Gly His Gly Cys Glu Val Pro Arg Cys Trp Leu Gln Ala
65 70 75 80

Ala Arg Glu His Pro Gly Gln Gly Gln Glu Ala Gln Ser Glu Glu Glu

85 90 95

Gly Glu Gly Gln Glu Gly Glu Gly Gln Glu Glu Gly Gly Ser Pro Leu
100 105 110

Lys Gly Pro Gly Gln Gly Ser Leu Asn Leu Pro Leu Cys Leu Gln Lys
115 120 125

Lys Lys Xaa Xaa
130

<210> 5320
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5320
Leu Ser Ser Ile Cys Leu Asn Ile Ser Ser Leu Gly Asp Ser Ser Pro
1 5 10 15

Leu Cys Leu Val Ala Asn Cys Asn Ser Pro Cys Gly Pro Thr Glu Tyr
20 25 30

His Ser Thr Ala Phe Leu Asp Ile Tyr Asp Val Leu Thr Ile Gln Val
35 40 45

<210> 5321
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5321
Lys Glu Trp His Cys Phe Tyr Ile Phe Ala His Leu Phe His Ala Arg
1 5 10 15

Leu Asn Arg Asn Ser Tyr Leu Leu Val Arg Val Val Cys Cys Asn Ile
20 25 30

Thr Tyr His Val Thr Ser Gly Lys Pro His Cys Met His Val Arg Glu
35 40 45

Gly Glu Ser His Val Arg Val Val Ile Lys Ile Val Leu Thr Leu
50 55 60

<210> 5322
<211> 87
<212> PRT
<213> Homo sapiens

<400> 5322
Met Arg Arg Arg Val Phe Phe Leu His Arg Cys Ser Ile Leu Val Phe
1 5 10 15

Leu Phe Pro Cys Lys Cys Asn Gln Met Pro Phe Tyr Met Trp Thr Tyr
20 25 30

Leu Tyr Trp Pro Asn Ile Phe Phe Leu Leu Ser Leu Phe Phe Phe Pro
35 40 45

Phe Phe Leu Leu Pro Leu Phe Leu Tyr Ser Phe Leu Phe Leu Phe Phe
50 55 60

Phe Phe Phe Ser Phe Phe Phe Gly Ser Cys Cys Tyr Pro Arg His Phe
65 70 75 80

Thr Ser Pro Ser Leu Lys Gly
85

<210> 5323
<211> 79
<212> PRT
<213> Homo sapiens

<400> 5323
Ile Gly Leu Lys Ala Asn Ser Gln Gly Ala Thr Asp Pro Phe His Asn
1 5 10 15

Arg Met Leu Pro Val Asn Ser Leu Ser Ile Leu Leu Cys Pro Val Ser
20 25 30

Lys Lys Lys Lys Lys Ser Arg Arg Val Ser Gln Ser Gly His Leu Ile
35 40 45

Arg Asp Leu Ala Gln Glu Glu Glu Met Gly Arg Glu Ser Asp Gly Glu
50 55 60

Gln His Ser Pro Trp Glu Pro Glu Val Gly Gly His Arg Ala Pro
65 70 75

<210> 5324
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5324
Glu Pro Ala Ala Thr Ala Ala Glu Thr Xaa Ser Cys Val Leu Cys Gly
1 5 10 15

Leu Pro Ala Ala Gly Lys Ser Thr Phe Ala Arg Ala Leu Ala His Arg
20 25 30

Leu Gln Gln Glu Gln Gly Trp Ala Ile Gly Val Val Ala Tyr Asp Asp
35 40 45

Val Met Pro Asp Ala Phe Leu Ala Gly Ala Arg Ala Arg Pro Ala His
50 55 60

Ser Gln Trp Lys Leu Leu Arg Gln Glu Leu Leu Lys Tyr Leu Glu Tyr
65 70 75 80

Phe Leu Met Ala Val Ile Asn Gly Cys Gln Met Ser Val Pro Pro Asn
85 90 95

Arg Thr

<210> 5325
<211> 178
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5325

```
Gly Lys Gly Xaa Xaa Leu Pro Ile Xaa Xaa Ser Xaa Thr Phe Met Pro
 1               5                  10                  15

Asn Gly Cys Cys Lys Thr Cys Thr Pro Arg Asn Glu Thr Arg Val Pro
            20                  25                  30

Cys Ser Thr Val Pro Val Thr Thr Glu Val Ser Tyr Ala Gly Cys Thr
        35                  40                  45

Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys Gly Thr Phe Val
    50                  55                  60

Met Tyr Ser Ala Lys Ala Gln Ala Leu Asp His Ser Cys Ser Cys Cys
65                  70                  75                  80

Lys Glu Glu Lys Thr Ser Gln Arg Glu Val Val Leu Ser Cys Pro Asn
                85                  90                  95

Gly Gly Ser Leu Thr His Thr Tyr Thr His Ile Glu Ser Cys Gln Cys
            100                 105                 110

Gln Asp Thr Val Cys Gly Leu Pro Thr Gly Thr Ser Arg Arg Ala Arg
        115                 120                 125

Arg Ser Pro Arg His Leu Gly Ser Val Ser Gly Val Gly Thr Ala Pro
    130                 135                 140

Ser Leu Pro Ser Thr Ala Leu Pro Pro Pro Asp Pro Leu Ser Leu Leu
145                 150                 155                 160

Lys Leu Gly Phe Leu Xaa Ser Asp Ile Tyr Cys Leu Ser Phe Cys Ser
                165                 170                 175
```

Val Leu

<210> 5326
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5326
Arg Gly Gly Gln Thr Xaa Xaa Pro Ala Gly Ala Arg Xaa Gly Thr Val
1 5 10 15

Leu Asn Pro Gly Glu Thr Ala Lys Trp Lys Thr Tyr Arg Val Cys Ala
20 25 30

Leu Pro Asp Phe Thr Val Leu Leu Gly His Phe Thr Tyr Val Pro Ala
35 40 45

Val Ile Asn
50

<210> 5327
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5327
Pro Gln Leu Tyr Lys Leu Phe Phe Lys Thr Lys Tyr Phe Gln Val Tyr
1 5 10 15

Leu Leu Thr Lys Asn Ile Ile Met Val Lys Thr Phe Leu Phe Asn Arg

20 25 30

Leu Val Ile Phe Leu Thr Ser Ile Phe Phe Asn Leu Ser Leu His Lys
35 40 45

Lys Asn
50

<210> 5328
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5328
Ser Val Tyr Leu Lys Arg Asn Leu Ile Phe Gln Gly Ser Asn Val Tyr
1 5 10 15

Val Phe Gln Val Val Leu Pro Thr Phe Ile Leu Glu Arg Arg Ser Leu
20 25 30

Leu Glu Met Tyr Ala Asp Phe Phe Xaa His Pro Asp Leu Phe Val Arg
35 40 45

Tyr Leu Thr Glu His Gly Ser Phe Gln Arg Leu Gln Met Leu Leu Ser
50 55 60

Ser Phe Leu Pro Phe Ile Leu Gln Asp Arg Trp Ile Pro Cys His Leu
65 70 75 80

Ser Asn Ile Ser Gly Tyr Ser Val Val Leu Asn Asn Xaa Phe Thr Leu
85 90 95

Val Ala Cys Leu Leu Lys Val Ile Trp Gly Arg Cys
100 105

<210> 5329
<211> 67

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5329
Leu Cys Met Ser Leu Gly Glu Cys Val Ser Ser Thr Val Ala Pro Arg
1 5 10 15

Gly Ser Thr His Ser Leu Lys Leu Leu Leu Pro His Cys Thr Tyr Ser
20 25 30

Leu Arg Leu Asn Trp Ser Gln Thr Asn Trp Asp Pro Ala Gln Ser Ser
35 40 45

Ser Ser Gln Asn Glu Val Leu Arg Pro Gln Cys Val Arg Thr Cys Leu
50 55 60

Ala Val Xaa
65

<210> 5330
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5330
Ala Gln Phe Leu Gly His Ala Pro Val Cys Ser Asp Met Leu Leu Tyr
1 5 10 15

Val Thr Glu Met Ala Met Ser Thr Gly Gly Lys Ile Thr Pro Thr Trp
20 25 30

Glu Glu Glu Lys Pro Val Arg Gly Ser Thr Ala Gly Ala Ala Leu Ser
35 40 45

Thr Glu Xaa Ser Cys Leu Pro Asp Ser Met Ala Phe Val Ser Ile Arg
50 55 60

Val
65

<210> 5331
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5331
Ile Pro Ala Leu Leu Leu Thr Ser Leu Gly Pro Trp Arg Met Leu Ser
1 5 10 15

Ile Ser Leu Ser Leu Ser Val Leu Leu Cys Lys Met Trp Met Ile Pro
20 25 30

Asp Ser Gln Ala Phe Cys Gln Asp Tyr Met Gly Phe Leu His Ser Ala
35 40 45

Met Ser Ser Asp Asn Ile Asn Thr Lys Ser Asn Leu Leu Asn Val
50 55 60

<210> 5332
<211> 404
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (223)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5332
Met Pro Asp Gly Ala Thr Leu Ala Ile Gly Ser Ser Arg Gly Lys Ile
1 5 10 15

Tyr Gln Tyr Asp Leu Arg Met Leu Lys Ser Pro Val Lys Thr Ile Ser
20 25 30

Ala His Lys Thr Ser Val Gln Cys Ile Xaa Phe Gln Tyr Ser Thr Val

```
        35                  40                  45

Leu Thr Lys Ser Ser Leu Asn Lys Gly Cys Ser Asn Lys Pro Thr Thr
     50                  55                  60

Val Asn Lys Arg Met Phe Asn Val Asn Ala Ala Ser Gly Gly Val Gln
 65                  70                  75                  80

Asn Ser Gly Ile Val Arg Glu Ala Pro Ala Thr Ser Ile Ala Thr Val
                85                  90                  95

Leu Pro Gln Pro Met Thr Ser Ala Met Gly Lys Gly Thr Val Ala Val
            100                 105                 110

Gln Glu Lys Ala Gly Leu Pro Arg Ser Ile Asn Thr Asp Thr Leu Ser
        115                 120                 125

Lys Glu Thr Asp Ser Gly Lys Asn Gln Asp Phe Ser Ser Phe Asp Asp
    130                 135                 140

Thr Gly Lys Ser Ser Leu Xaa Asp Met Phe Ser Pro Ile Arg Asp Asp
145                 150                 155                 160

Ala Val Val Asn Lys Gly Ser Asp Glu Ser Ile Gly Lys Gly Asp Gly
                165                 170                 175

Phe Asp Phe Leu Pro Gln Leu Asn Ser Val Phe Pro Pro Arg Lys Asn
            180                 185                 190

Pro Val Thr Ser Ser Thr Ser Val Leu His Ser Ser Pro Leu Asn Val
        195                 200                 205

Phe Met Gly Ser Pro Gly Lys Glu Glu Asn Glu Asn Arg Asp Xaa Thr
    210                 215                 220

Ala Glu Ser Lys Lys Ile Tyr Met Gly Lys Gln Glu Ser Lys Asp Ser
225                 230                 235                 240

Phe Lys Gln Leu Ala Lys Leu Val Thr Ser Gly Ala Glu Ser Gly Asn
                245                 250                 255

Leu Asn Thr Ser Pro Ser Ser Asn Gln Thr Arg Asn Ser Glu Lys Phe
            260                 265                 270

Glu Lys Pro Glu Asn Glu Ile Glu Ala Gln Leu Ile Cys Glu Pro Pro
        275                 280                 285

Ile Asn Gly Ser Ser Thr Pro Asn Pro Lys Ile Ala Ser Ser Val Thr
    290                 295                 300

Ala Gly Val Ala Ser Ser Leu Ser Glu Lys Ile Ala Asp Ser Ile Gly
```

305 310 315 320

Asn Asn Arg Gln Asn Ala Pro Leu Thr Ser Ile Gln Ile Arg Phe Ile
325 330 335

Gln Asn Met Ile Gln Glu Thr Leu Asp Asp Phe Arg Glu Ala Cys His
340 345 350

Arg Asp Ile Val Asn Leu Gln Val Glu Met Ile Lys Gln Phe His Met
355 360 365

Gln Leu Asn Glu Met His Ser Leu Leu Glu Arg Tyr Ser Val Asn Glu
370 375 380

Gly Leu Val Ala Glu Ile Glu Arg Leu Arg Glu Glu Asn Lys Arg Leu
385 390 395 400

Arg Ala His Phe

<210> 5333
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5333
Arg Lys Pro Gln Thr Pro Thr Ala Leu Cys Thr Xaa Trp Cys Pro His
1 5 10 15

Phe Gln Lys Lys Lys Lys Lys Ile Ser Lys Ile Glu Phe Lys Lys Ser
20 25 30

His Leu Ser Cys Pro Ala Asn Ile Cys Ser Ser Leu Val Gly Ala Val
35 40 45

Glu Ala Ser Thr His Arg Gln Ala Val Ala Gly Thr Val Lys Gly Lys
50 55 60

Thr Pro
65

<210> 5334

<211> 258
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (251)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5334
Pro Arg Val Arg Arg Glu Val Gln Ser Leu Lys Glu Gln His Gln Lys
1 5 10 15

Glu Ile Ser Glu Leu Asn Glu Thr Phe Leu Ser Asp Ser Glu Lys Glu
20 25 30

Lys Leu Thr Leu Met Phe Glu Ile Gln Gly Leu Lys Glu Gln Cys Glu
35 40 45

Asn Leu Gln Gln Glu Lys Gln Glu Ala Ile Leu Asn Tyr Glu Ser Leu
50 55 60

Arg Glu Ile Met Glu Ile Leu Gln Thr Glu Leu Gly Glu Ser Ala Gly
65 70 75 80

Lys Ile Ser Gln Glu Phe Glu Ser Met Lys Gln Gln Gln Ala Ser Asp
85 90 95

Val His Glu Leu Gln Gln Lys Leu Arg Thr Ala Phe Thr Glu Lys Asp
100 105 110

Ala Leu Leu Glu Thr Val Asn Arg Leu Gln Gly Glu Asn Glu Lys Leu
115 120 125

Leu Ser Gln Gln Glu Leu Val Pro Glu Leu Glu Asn Thr Ile Lys Asn
130 135 140

Leu Gln Glu Lys Asn Gly Val Tyr Leu Leu Ser Leu Ser Gln Arg Asp
145 150 155 160

Thr Met Leu Lys Glu Leu Glu Gly Lys Ile Asn Ser Leu Thr Glu Glu
165 170 175

Lys Asp Asp Phe Ile Asn Lys Leu Lys Asn Ser His Glu Glu Met Asp
180 185 190

Asn Phe His Lys Lys Cys Glu Arg Glu Glu Arg Leu Ile Leu Glu Leu
195 200 205

Gly Lys Lys Val Glu Gln Thr Ile Gln Tyr Asn Ser Glu Leu Glu Gln
210 215 220

```
Lys Val Asn Glu Leu Thr Gly Gly Leu Glu Glu Thr Leu Lys Glu Lys
225                 230                 235                 240

Asp Gln Asn Asp Gln Lys Leu Glu Lys Leu Xaa Gly Ser Asn Glu Ser
                245                 250                 255

Ser Leu
```

<210> 5335
<211> 60
<212> PRT
<213> Homo sapiens

<400> 5335

```
Tyr Ala Ile Ile Met Gln Leu Asn Val Asp Glu Ser Gly Arg Gly Trp
  1               5                  10                  15

Ala Gln Met Val Pro His Asp Pro Gly Ile Asp Pro Glu Phe Pro Glu
             20                  25                  30

Glu Trp Val Asp Asn Thr Tyr Ser Asn Lys Asn Pro Phe Leu Leu Phe
         35                  40                  45

Ser Ile Lys Leu Leu Ser Lys Ile Ile Asp Arg Leu
     50                  55                  60
```

<210> 5336
<211> 124
<212> PRT
<213> Homo sapiens

<400> 5336

```
Leu Cys His Glu Lys Leu Ser Leu Leu Glu Asp Phe Lys Asp Phe Arg
  1               5                  10                  15

Asp Ser Cys Ser Ser Ser Glu Arg Thr Asp Gly Arg Tyr Ser Lys Tyr
             20                  25                  30

Arg Val Arg Arg Asn Ser Leu Gln His His Gln Asp Asp Thr Lys Tyr
         35                  40                  45

Arg Thr Lys Ser Phe Lys Gly Asp Arg Thr Phe Leu Glu Gly Tyr His
     50                  55                  60

Thr Arg Gly Leu Asp His Ser Ser Ser Trp Gln Asp His Ser Arg Phe
```

```
 65                  70                  75                  80

Leu Ser Ser Pro Arg Phe Ser Tyr Val Asn Ser Phe Thr Lys Arg Thr
                85                  90                  95

Val Ala Pro Asp Ser Ala Ser Asn Lys Glu Asp Ala Thr Met Asn Gly
            100                 105                 110

Thr Ser Ser Gln Pro Lys Lys Glu Glu Tyr Gly Ser
        115                 120
```

<210> 5337
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5337

```
Met Ser Arg Thr Arg Pro Ala Arg Pro Met Gly Trp Gly Gln Gln Arg
  1               5                  10                  15

His Ser Pro Leu Val Val Gln Arg Gln Leu Xaa Arg Glu Gly Ser Ser
             20                  25                  30

Pro Glu Gly Ser Thr Arg Arg Thr Ile Glu Gly Gln Ser Pro Glu Pro
         35                  40                  45

Val Phe Gly Asp Ala Asp Val Asp Val Ser Ala Val Gln Ala Lys Leu
     50                  55                  60

Gly Ala Leu Glu Leu Asn Gln Arg Asp Ala Ala Ala Glu Thr Glu Leu
 65                  70                  75                  80

Arg Val His Pro Pro Cys Gln Arg His Cys Pro Glu Pro Arg Val His
                85                  90                  95
```

```
Pro Lys Lys Thr Lys Pro Pro Ala Lys Leu Pro Lys Val Xaa Thr Gln
            100                 105                 110

Lys Pro Pro Ser Leu Ala Leu Phe Pro Xaa Ser Ser Pro Cys Gly Asn
        115                 120                 125

Leu Leu Leu Ala Arg Lys Phe Gly
    130                 135
```

<210> 5338
<211> 120
<212> PRT
<213> Homo sapiens

<400> 5338

```
Val Leu Asp Arg Glu Arg Pro Ser Phe Phe Phe Phe Phe Ser Val Gln
  1               5                  10                  15

Ala Gln Phe Cys His Gln Phe Asp Tyr Glu Lys Ser Phe Gly Leu Pro
             20                  25                  30

Gly Ser Phe Gly Ala Trp Lys Leu Gln Met Arg Asp Gly Gly Leu His
         35                  40                  45

Cys Phe Ala Ala Gly Glu Arg Glu Leu Ile Arg Ser Leu Pro Thr Glu
     50                  55                  60

Val Gly Val Met Pro Asp Ala Glu Arg Ser Gly Ser Pro Arg Ala Gln
 65                  70                  75                  80

Ala Pro Cys Gly Arg Cys Pro Gln Arg Ala Ser Pro Pro Pro Arg Pro
                 85                  90                  95

Gly Ser Tyr Leu Leu His Asp Leu Leu Pro Arg Arg Ala Ala Tyr Leu
            100                 105                 110

Leu Asp Gly Leu Leu Asp Val Leu
        115                 120
```

<210> 5339
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5339
Ala Gly Met Met Tyr Leu Xaa Asn His Thr Pro Val Leu Ile Ser His
1 5 10 15

Gln Ile Ser Met Phe Thr Phe Ser Val Trp Met Ser Gly Arg Thr Leu
20 25 30

Lys Asn Trp Gln Ser Cys Pro Thr His Ala Glu His Leu
35 40 45

<210> 5340
<211> 288
<212> PRT
<213> Homo sapiens

<400> 5340
Arg Ser Ala Pro Pro Gly Arg Cys Arg Pro Trp Pro Val Pro Ser Pro
1 5 10 15

Arg Phe Ser Ala Pro Arg Ala Val Pro Ser Gln Ser Pro Ala Pro Arg
20 25 30

Tyr Arg Ala Asp Arg Pro Ser Arg Arg Leu Pro Val Pro Gly Thr Pro
35 40 45

Ala Arg Pro Leu Ala Arg Ser Pro Pro Ala Ala His Val Pro Gly Ala
50 55 60

Gly Pro Arg Ala Gly Gly Arg Ala Ala Arg Arg Ser Gln Ala Gly Leu
65 70 75 80

Cys Ser Val Pro Met Ala Ala Ala Gly Trp Arg Asp Gly Ser Gly Gln
85 90 95

Glu Lys Tyr Arg Leu Val Val Val Gly Gly Gly Gly Val Gly Lys Ser
100 105 110

Ala Leu Thr Ile Gln Phe Ile Gln Ser Tyr Phe Val Thr Asp Tyr Asp
115 120 125

Pro Thr Ile Glu Asp Ser Tyr Thr Lys Gln Cys Val Ile Asp Asp Arg
130 135 140

Ala Ala Arg Leu Asp Ile Leu Asp Thr Ala Gly Gln Glu Glu Phe Gly
145 150 155 160

```
Ala Met Arg Glu Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Leu Val
                165                 170                 175

Phe Ser Val Thr Asp Arg Gly Ser Phe Glu Glu Ile Tyr Lys Phe Gln
            180                 185                 190

Arg Gln Ile Leu Arg Val Lys Asp Arg Asp Glu Phe Pro Met Ile Leu
        195                 200                 205

Ile Gly Asn Lys Ala Asp Leu Asp His Gln Arg Gln Val Thr Gln Glu
    210                 215                 220

Glu Gly Gln Gln Leu Ala Arg Gln Leu Lys Val Thr Tyr Met Glu Ala
225                 230                 235                 240

Ser Ala Lys Ile Arg Met Asn Val Asp Gln Ala Phe His Glu Leu Val
                245                 250                 255

Arg Val Ile Arg Lys Phe Gln Glu Gln Glu Cys Pro Pro Ser Pro Glu
            260                 265                 270

Pro Thr Arg Lys Glu Lys Asp Lys Lys Gly Cys His Cys Val Ile Phe
        275                 280                 285
```

<210> 5341
<211> 279
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5341

```
Ala Ala Ala Glu Arg Asp Val Pro Pro Pro Pro Pro Pro Pro Pro Pro
  1               5                  10                  15

Pro Ser Glu Pro Leu Leu Ala Leu Arg Gly Gly Ala Thr Asp Ala Cys
             20                  25                  30

Leu Ala Arg Arg Thr Leu Arg Asp Pro Gly Ala Ala Gln Pro Ala Glu
         35                  40                  45

Pro Arg Arg Ser Pro Ala Pro Gly Ala Pro Gly Ser Gln Cys Arg Pro
     50                  55                  60
```

```
Ala Gly Gly Pro Val Arg Glu Pro Arg Val Arg Glu Leu Arg Leu His
 65                  70                  75                  80

Pro Asp Ala Ala Val Ala Arg Xaa Gly Thr Gly His Tyr Leu Cys Asn
                 85                  90                  95

Ala Cys Gly Leu Tyr Ser Lys Met Asn Gly Leu Ser Arg Pro Leu Ile
            100                 105                 110

Lys Pro Gln Lys Arg Val Pro Ser Ser Arg Arg Leu Gly Leu Ser Cys
        115                 120                 125

Ala Asn Cys His Thr Thr Thr Thr Thr Leu Trp Arg Arg Asn Ala Glu
    130                 135                 140

Gly Glu Pro Val Cys Asn Ala Cys Gly Leu Tyr Met Lys Leu His Gly
145                 150                 155                 160

Val Pro Arg Pro Leu Ala Met Lys Lys Glu Gly Ile Gln Thr Arg Lys
                165                 170                 175

Arg Lys Pro Lys Asn Ile Asn Lys Ser Lys Thr Cys Ser Gly Asn Ser
            180                 185                 190

Asn Asn Ser Ile Pro Met Thr Pro Thr Ser Thr Ser Ser Asn Ser Asp
        195                 200                 205

Asp Cys Ser Lys Asn Thr Ser Pro Thr Thr Gln Pro Thr Ala Ser Gly
    210                 215                 220

Ala Gly Ala Pro Val Met Thr Gly Ala Gly Glu Ser Thr Asn Pro Glu
225                 230                 235                 240

Asn Ser Glu Leu Lys Tyr Ser Gly Gln Asp Gly Leu Tyr Ile Gly Val
                245                 250                 255

Ser Leu Ala Ser Pro Ala Glu Val Thr Ser Ser Val Arg Pro Asp Ser
            260                 265                 270

Trp Cys Ala Leu Ala Leu Ala
        275
```

<210> 5342
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5342

```
Glu Glu Leu Glu Ala Arg Gly Leu Arg Trp Leu Pro Trp Val Phe Pro
 1               5                  10                  15

Ser Arg Leu Cys Tyr Cys Val Arg Pro Phe Ser His Cys Gly His Val
            20                  25                  30

Phe Leu Glu Ser Ile Phe Gln Val Leu Tyr Ile Gln His Ser Pro Pro
        35                  40                  45

Ser Phe Ser Leu Ile Pro Phe
    50                  55
```

<210> 5343
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5343

```
Thr Glu Glu Ile Leu Arg Thr Arg Gly Ser Thr Arg Glu Phe Arg Thr
 1               5                  10                  15

Gly Thr Cys Arg Arg Thr Ser Phe Pro Ile Val Ser Arg Ile Arg Ala
            20                  25                  30

Trp Arg Asn His Gly His Ser Xaa Phe Leu Cys Glu Ile Gly Ile Arg
        35                  40                  45

Ser Gln Phe His Thr Thr Tyr Glu Pro Glu Ala
    50                  55
```

<210> 5344
<211> 103
<212> PRT
<213> Homo sapiens

<400> 5344

```
Ser Met His Lys Ala Gly Leu Leu Gly Leu Cys Ala Arg Ala Trp Asn
 1               5                  10                  15

Ser Val Arg Met Ala Ser Ser Gly Met Thr Arg Arg Asp Pro Leu Ala
            20                  25                  30
```

```
Asn Lys Val Ala Leu Val Thr Ala Ser Thr Asp Gly Ile Gly Phe Ala
         35                  40                  45

Ile Ala Arg Arg Leu Ala Gln Asp Gly Ala His Val Val Val Ser Ser
     50                  55                  60

Arg Lys Gln Gln Asn Val Asp Gln Ala Val Ala Thr Leu Gln Gly Glu
 65                  70                  75                  80

Gly Leu Ser Val Thr Gly Thr Cys Ala Met Trp Gly Arg Arg Arg Thr
                 85                  90                  95

Gly Ser Gly Trp Trp Pro Arg
            100
```

<210> 5345
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5345

```
Ser Leu Tyr Met Leu Thr Asn Ser Lys Gly Lys Glu Ile Asp His Lys
  1               5                  10                  15

Leu His Val Asn Val Glu Gly Lys Leu Ile Asp His Lys Leu Lys Tyr
             20                  25                  30

Asn Leu Ile Cys Tyr Ile Phe Leu Leu Ile Tyr Ile Pro Met Lys Xaa
         35                  40                  45

Phe Leu Tyr
     50
```

<210> 5346
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5346
Cys Phe Ser Leu Pro Ser Leu Phe Thr Ala Val Lys Phe Ile Lys Cys
1 5 10 15

Phe Ser Val Xaa Phe Cys Ser Leu Ser Phe Thr Gly Tyr Phe Phe Met
20 25 30

Tyr Thr Phe Arg Ile Phe Cys Leu Leu Tyr Pro Val Val Gln Met Ile
35 40 45

Ser Tyr Ile Leu Gln Met Pro Phe Gln Phe Leu Phe Ser Phe Ser Ile
50 55 60

Lys Leu Pro Ser Cys Pro Asn Val Gln Phe Val Ser Val Cys Val Cys
65 70 75 80

Val Cys Val Cys Val Asn Leu Ile Phe Lys Ser Ala Arg Leu Pro Ile
85 90 95

<210> 5347
<211> 291
<212> PRT
<213> Homo sapiens

<400> 5347
Arg Pro Asp Ser Arg Val Asp Pro Arg Val Arg Glu Val Thr Asp Tyr
1 5 10 15

Ala Ile Ala Arg Arg Ile Val Asp Leu His Ser Arg Ile Glu Glu Ser
20 25 30

Ile Asp Arg Val Tyr Ser Leu Asp Asp Ile Arg Arg Tyr Leu Leu Phe
35 40 45

Ala Arg Gln Phe Lys Pro Lys Ile Ser Lys Glu Ser Glu Asp Phe Ile
50 55 60

Val Glu Gln Tyr Lys His Leu Arg Gln Arg Asp Gly Ser Gly Val Thr
65 70 75 80

Lys Ser Ser Trp Arg Ile Thr Val Arg Gln Leu Glu Ser Met Ile Arg
85 90 95

Leu Ser Glu Ala Met Ala Arg Met His Cys Cys Asp Glu Val Gln Pro
100 105 110

```
Lys His Val Lys Glu Ala Phe Arg Leu Leu Asn Lys Ser Ile Ile Arg
        115                 120                 125

Val Glu Thr Pro Asp Val Asn Leu Asp Gln Glu Glu Glu Ile Gln Met
    130                 135                 140

Glu Val Asp Glu Gly Ala Gly Gly Ile Asn Gly His Ala Asp Ser Pro
145                 150                 155                 160

Ala Pro Val Asn Gly Ile Asn Gly Tyr Asn Glu Asp Ile Asn Gln Glu
                165                 170                 175

Ser Ala Pro Lys Ala Ser Leu Arg Leu Gly Phe Ser Glu Tyr Cys Arg
            180                 185                 190

Ile Ser Asn Leu Ile Val Leu His Leu Arg Lys Val Glu Glu Glu Glu
        195                 200                 205

Asp Glu Ser Ala Leu Lys Arg Ser Glu Leu Val Asn Trp Tyr Leu Lys
    210                 215                 220

Glu Ile Glu Ser Glu Ile Asp Ser Glu Glu Glu Leu Ile Asn Lys Lys
225                 230                 235                 240

Arg Ile Ile Glu Lys Val Ile His Arg Leu Thr His Tyr Asp His Val
                245                 250                 255

Leu Ile Glu Leu Thr Gln Ala Gly Leu Lys Gly Ser Thr Glu Gly Ser
            260                 265                 270

Glu Ser Tyr Glu Glu Asp Pro Tyr Leu Val Val Asn Pro Asn Tyr Leu
        275                 280                 285

Leu Glu Asp
    290
```

<210> 5348
<211> 33
<212> PRT
<213> Homo sapiens

<400> 5348

```
Thr Cys Ser Arg Ser Arg Ala Ala Ala Leu Leu Thr Val Leu Gly Val
  1               5                  10                  15

Cys Val Gln Ser Glu Gln Gly Leu Cys Phe Trp Ile Val Lys Glu Asp
             20                  25                  30
```

Ala

<210> 5349
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5349
Thr Pro Ala Gly Xaa Arg Ser Gly Asn Ser Arg Val Glu Gly Pro Leu
1 5 10 15

Ser Cys Leu Tyr Ser Phe Ser Leu Leu Tyr Ser Phe Thr Arg Ser Pro
20 25 30

His Leu Thr Ser Glu Leu Leu Gly Pro Leu Asp Pro His Ile Ser Trp
35 40 45

Ala Ile Ser Leu Phe Cys
50

<210> 5350
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5350

Xaa Arg Lys Thr Leu Asp Val Xaa Xaa Thr Ile Met Gly Thr Arg Ile
1 5 10 15

Glu Gly Phe Phe Pro Leu Lys Ala Phe Leu Pro Gly Gly Trp Ala Leu
20 25 30

Leu Gly His Ala Leu Gln Ser Ser Val Pro Gln Gln Glu Ser Gly Gly
35 40 45

His His Leu Pro Ala Ser Ser Thr Phe Ser Ala Ser Leu Phe Ser Met
50 55 60

Asn Pro Gly Arg Pro Ala Gly Thr Ser Lys Phe Pro Gly Leu Ser Ala
65 70 75 80

<210> 5351
<211> 53
<212> PRT
<213> Homo sapiens

<400> 5351
Gln Thr Leu Arg Thr Lys Met Asn Glu Asn Leu Phe Ala Ser Phe Ile
1 5 10 15

Ala Pro Thr Ile Leu Gly Leu Pro Ala Ala Val Leu Ile Ile Leu Phe
20 25 30

Pro Pro Leu Leu Ile Pro Thr Ser Lys Tyr Leu Ile Asn Asn Arg Leu
35 40 45

Ile Thr Thr Gln Gln
50

<210> 5352
<211> 185
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5352

```
Arg Cys Pro Thr Arg Ser Pro Pro Pro Asp Thr Pro Gly Ser Arg Gly
 1               5                  10                  15

Thr Thr Ala Met Cys Ser Leu Ala Ser Gly Ala Thr Gly Gly Arg Gly
            20                  25                  30

Ala Val Glu Asn Glu Glu Asp Leu Pro Glu Leu Ser Asp Ser Gly Asp
        35                  40                  45

Glu Ala Ala Trp Glu Asp Glu Asp Asp Ala Asp Leu Pro His Gly Lys
    50                  55                  60

Gln Gln Thr Pro Cys Leu Phe Cys Asn Arg Leu Phe Thr Ser Ala Glu
65                  70                  75                  80

Glu Thr Phe Ser His Cys Lys Ser Glu His Gln Phe Asn Ile Asp Ser
                85                  90                  95

Met Val His Lys His Gly Leu Glu Phe Tyr Gly Tyr Ile Lys Leu Ile
            100                 105                 110

Xaa Phe Ile Arg Leu Lys Asn Pro Thr Val Glu Tyr Met Asn Ser Ile
        115                 120                 125

Tyr Asn Pro Val Pro Trp Glu Lys Glu Glu Tyr Leu Lys Pro Val Leu
    130                 135                 140

Glu Asp Asp Leu Leu Leu Gln Phe Asp Val Glu Asp Leu Tyr Glu Pro
145                 150                 155                 160

Val Ser Val Pro Phe Ser Tyr Pro Asn Gly Leu Ser Glu Asn Thr Ser
                165                 170                 175

Val Val Glu Lys Leu Lys His Met Glu
            180                 185
```

<210> 5353
<211> 76
<212> PRT
<213> Homo sapiens

<400> 5353

```
Tyr Ile Lys Ala Leu Leu Ser Ser Asp Tyr Ala Tyr Phe Ala Ser Arg
 1               5                  10                  15

Glu Thr Glu Ala Trp Val Gly Gln Arg Gly Ala His Val Phe Thr Ala
            20                  25                  30

Leu Ser Ala Pro Asp Phe Gly Ala Ile Ser Leu His Pro Cys Ala Pro
```

```
        35                  40                  45

Val Lys Asn Leu Ala Ser Thr Phe Cys Ser Pro Asp Pro Pro Ser Leu
     50                  55                  60

Thr Cys Gly Ser Cys His Thr Lys Met Gly Leu Pro
 65                  70                  75
```

<210> 5354
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5354

```
Gly Thr Gln Leu Ile Thr Arg Arg Ile Asn Trp Pro Lys Phe Leu Ile
  1               5                  10                  15

Phe Gln Phe Val Ala Pro Ala Pro Arg Asp His Gln Lys Leu Phe Trp
             20                  25                  30

Val Ser Leu Ser Leu Arg Arg Asp Pro Leu His Arg Pro Ser Leu Ile
         35                  40                  45

Leu Ile Ser Pro Cys Pro Glu Ser Val Asn Val Pro Arg Lys
     50                  55                  60
```

<210> 5355
<211> 80
<212> PRT
<213> Homo sapiens

<400> 5355

```
Gly His Val Asp Asn Leu Arg Tyr His Ser Ile Val His Asn Val His
  1               5                  10                  15

His Tyr Ser Val Asp Cys Lys Gly Leu Leu Ser Ser Cys Lys Asn Tyr
             20                  25                  30

Pro Ser Lys Ser Ile Phe Lys Val Leu Val Leu Leu Ile Tyr Lys Leu
         35                  40                  45

Cys Ala Arg Ser Pro Lys Val Asn Ser Asn Ile Tyr Leu Lys Tyr Ser
     50                  55                  60

Leu Ser Tyr Leu Ile Asn Leu Trp Tyr Ile Phe Leu Tyr Tyr Ala Cys
 65                  70                  75                  80
```

<210> 5356
<211> 116
<212> PRT
<213> Homo sapiens

<400> 5356
Leu Lys Met Lys Thr Pro Phe Phe Ile Phe Asn Leu Ala Glu Thr Ala
1 5 10 15

His Met Pro Ser Lys Val Lys Ala Gln Leu Tyr Ala Gln Ala Tyr Asp
20 25 30

Leu Tyr Lys Glu Ile Val Tyr Leu Gln Lys Glu His Pro Val Asn Trp
35 40 45

His Lys Asn Tyr Ala Ile Ala Cys Glu Arg Met Leu Arg Leu Gln Ala
50 55 60

Arg Asp Ala Asp Pro Glu Val Leu Leu Ser Glu Thr Ile Arg His Phe
65 70 75 80

Arg Leu Tyr Ser Gln Lys Ala Pro Asn Asp Pro Gln Gln Ala Asp Ile
85 90 95

Leu Gly Ala Leu Lys His Leu Arg Lys Glu Leu Gln Ser Leu Arg Asn
100 105 110

Arg Lys Asn Val
115

<210> 5357
<211> 184
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5357
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Pro Ala Gly His
1 5 10 15

```
Ser Gln Lys Lys Gly Lys Ala Ile Asn Ile Gly Gln Leu Val Asp Val
            20                  25                  30

Lys Val Leu Glu Lys Thr Lys Asp Gly Leu Glu Val Ala Val Leu Pro
        35                  40                  45

His Asn Ile Arg Ala Phe Leu Pro Thr Ser His Leu Ser Asp His Val
    50                  55                  60

Ala Asn Gly Pro Leu Leu His His Trp Leu Gln Ala Gly Asp Ile Leu
65                  70                  75                  80

His Arg Val Leu Cys Leu Ser Gln Ser Glu Gly Arg Val Leu Leu Cys
                85                  90                  95

Arg Lys Pro Ala Leu Val Ser Thr Val Glu Gly Gly Gln Xaa Pro Lys
            100                 105                 110

Asn Phe Ser Glu Ile His Pro Gly Met Leu Leu Ile Gly Phe Val Lys
        115                 120                 125

Ser Ile Lys Asp Tyr Gly Val Phe Ile Gln Phe Pro Ser Gly Leu Ser
    130                 135                 140

Gly Leu Ala Pro Lys Ala Ile Met Ser Asp Lys Phe Val Thr Ser Thr
145                 150                 155                 160

Ser Asp His Phe Val Glu Gly Gln Thr Val Ala Ala Lys Val Thr Asn
                165                 170                 175

Val Asp Glu Glu Lys Gln Arg Met
            180
```

<210> 5358
<211> 77
<212> PRT
<213> Homo sapiens

<400> 5358

```
Asn Leu Arg Phe Asp Asp Ala Glu Ala Leu Asp Tyr Thr Phe Ala Tyr
  1               5                  10                  15

Phe Asp Lys Val His Leu Ser Leu Phe Ile Ser Ser Val Phe Phe Cys
            20                  25                  30

Tyr Gln Arg Gln Leu Ile Ser Phe Val Pro Gln Tyr Phe Phe Cys Lys
        35                  40                  45

Tyr Leu Pro Lys Phe Phe Gln Ile Leu Cys Lys Met Gln Val Ile Val
```

```
     50                  55                  60

Glu Met Pro Val Tyr Ala Phe Met Leu Ala Ser Leu Asn
 65                  70                  75
```

<210> 5359
<211> 83
<212> PRT
<213> Homo sapiens

<400> 5359

```
Gln Ser Val Tyr Lys Arg Gly Leu Gln Lys Lys Met Arg Ala Cys Phe
  1               5                  10                  15

Thr Gln Gln Lys Ile Trp Pro Phe Leu Asn Asp Thr Arg Arg Val Ile
             20                  25                  30

Leu Ser His Thr Phe Pro Ser Phe Arg Trp Trp Thr Phe Val Glu Thr
         35                  40                  45

Gly Thr Gln Trp Ser Asn Arg Leu Cys Pro Pro Val Ala Asp Ser Pro
     50                  55                  60

Ala Gly Arg Trp Thr Arg Gly Pro Val Leu Thr Val Thr Arg Leu Ser
 65                  70                  75                  80

Leu Leu Glu
```

<210> 5360
<211> 82
<212> PRT
<213> Homo sapiens

<400> 5360

```
Phe Tyr Pro Gly Arg Lys Ile Lys Gly Ser His Arg Ile Ala Leu Val
  1               5                  10                  15

Lys Thr Lys His Thr Ile Ala Leu Thr Glu Tyr Leu Gly Asn Leu Pro
             20                  25                  30

Asn Leu Leu Ile Phe Gly Val Cys Phe Leu Thr Val Gly Leu Trp Glu
         35                  40                  45

Asp Val Ile Tyr Asp Gln Tyr Leu Pro Val Thr Leu Phe Ile Ser Leu
     50                  55                  60
```

Ala Leu Lys Ala Asn Gly Gly Lys Lys Ser Met Lys Lys Lys Arg Leu
65 70 75 80

Ile Lys

<210> 5361
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5361
Gly Lys Met Cys Ala Ala Gln Val Arg Glu Tyr Tyr Leu Ala Xaa Lys
1 5 10 15

Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys
20 25 30

Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu
35 40 45

Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln
50 55 60

Leu Asn Arg Leu Ala Xaa His Pro Pro Phe Ala Ser Trp Arg Asn Ser
65 70 75 80

Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Lys Pro Glu
85 90 95

Trp Xaa Met Xaa
100

<210> 5362
<211> 379
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5362
Arg Pro Thr Arg Pro Val Phe Tyr Ala Xaa Glu Ser Trp Ile Lys Tyr
1 5 10 15

Asp Val Gln Glu Arg Gln Lys Tyr Leu Ala Gln Leu Leu Asn Ser Val
20 25 30

Arg Leu Pro Leu Leu Ser Val Lys Phe Leu Thr Arg Leu Tyr Glu Ala
35 40 45

Asn His Leu Ile Arg Asp Asp Arg Thr Cys Lys His Leu Leu Asn Glu
50 55 60

Ala Leu Lys Tyr His Phe Met Pro Glu His Arg Leu Ser His Gln Thr
65 70 75 80

Val Leu Met Thr Arg Pro Arg Cys Ala Pro Lys Val Leu Cys Ala Val
85 90 95

Gly Gly Lys Ser Gly Leu Phe Ala Cys Leu Asp Ser Val Glu Met Tyr
100 105 110

Phe Pro Gln Asn Asp Ser Trp Ile Gly Leu Ala Pro Leu Asn Ile Pro
115 120 125

Arg Tyr Glu Phe Gly Ile Cys Val Leu Asp Gln Lys Val Tyr Val Ile
130 135 140

Gly Gly Ile Ala Thr Asn Val Arg Pro Gly Val Thr Ile Arg Lys His
145 150 155 160

Glu Asn Ser Val Glu Cys Trp Asn Pro Asp Thr Asn Thr Trp Thr Ser
165 170 175

Leu Glu Arg Met Asn Glu Ser Arg Ser Thr Leu Gly Val Val Val Leu

```
            180                 185                 190

Ala Gly Glu Leu Tyr Ala Leu Gly Gly Tyr Asp Gly Gln Ser Tyr Leu
        195                 200                 205

Gln Ser Val Glu Lys Tyr Ile Pro Lys Ile Arg Lys Trp Gln Pro Val
    210                 215                 220

Ala Pro Met Thr Thr Thr Arg Ser Cys Phe Ala Ala Ala Val Leu Asp
225                 230                 235                 240

Gly Met Ile Tyr Ala Ile Gly Gly Tyr Gly Pro Ala His Met Asn Ser
                245                 250                 255

Val Glu Arg Tyr Asp Pro Ser Lys Asp Ser Trp Glu Met Val Ala Ser
            260                 265                 270

Met Ala Asp Lys Arg Ile His Phe Gly Val Gly Val Met Leu Gly Phe
        275                 280                 285

Ile Phe Val Val Gly Gly His Asn Gly Val Ser His Leu Ser Ser Ile
    290                 295                 300

Glu Arg Tyr Asp Pro His Gln Asn Gln Trp Thr Val Cys Arg Pro Met
305                 310                 315                 320

Lys Glu Pro Arg Thr Gly Val Gly Ala Ala Val Ile Asp Asn Tyr Leu
                325                 330                 335

Tyr Val Val Gly Gly His Ser Gly Ser Ser Tyr Leu Asn Thr Val Gln
            340                 345                 350

Lys Tyr Asp Pro Ile Ser Asp Thr Trp Leu Asp Ser Ala Gly Met Ile
        355                 360                 365

Tyr Cys Arg Cys Asn Phe Gly Leu Thr Ala Leu
    370                 375
```

<210> 5363
<211> 130
<212> PRT
<213> Homo sapiens

<400> 5363

```
Lys His Trp Thr Ser Leu Thr Tyr Phe Phe Ser Phe Ser Ala Phe Arg
  1               5                  10                  15

Met Ile Pro Tyr Pro Leu Glu Lys Gly His Leu Phe Tyr Pro Tyr Pro
             20                  25                  30
```

```
Ile Cys Thr Glu Thr Ala Asp Arg Glu Leu Leu Pro Ser Phe His Glu
         35                  40                  45

Val Ser Val Tyr Pro Lys Lys Glu Leu Pro Phe Phe Ile Leu Phe Thr
     50                  55                  60

Ala Gly Leu Cys Ser Phe Thr Ala Met Leu Ala Leu Leu Thr His Gln
 65                  70                  75                  80

Phe Pro Glu Leu Met Gly Val Phe Ala Lys Ala Met Ile Asp Ile Phe
                 85                  90                  95

Cys Ser Ala Glu Phe Arg Asp Trp Asn Cys Lys Ser Ile Phe Met Arg
            100                 105                 110

Val Glu Asp Glu Leu Glu Ile Pro Pro Ala Pro Gln Ser Gln His Phe
        115                 120                 125

Gln Asn
    130
```

<210> 5364
<211> 72
<212> PRT
<213> Homo sapiens

<400> 5364

```
Ser Ser Ala Leu Glu Val Leu Glu Phe Leu Ile Ser Phe Ile Gln Phe
  1               5                  10                  15

Gln Gly Leu Ile Phe Tyr Arg Leu Pro Arg Gln Phe Ile Gln Gly Leu
             20                  25                  30

Leu Tyr Leu Arg Phe Thr Cys His Val Arg Ser Ser Gly Phe Glu His
         35                  40                  45

Lys Leu Tyr Ser Trp Asp Leu Ser Asp Thr Pro Leu Leu Thr Gly Leu
     50                  55                  60

Gly Phe His Phe Ser Asp Pro Phe
 65                  70
```

<210> 5365
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5365
Ser Ala Pro Ser Pro Asn Leu Leu Pro Leu Gly Arg Val Gly Leu Arg
1 5 10 15

Asp Leu Leu Ser Trp Lys Val Leu Thr Leu Pro Gly Glu Gly Ala Arg
20 25 30

His Cys Pro Arg Glu Ser Asn Arg Arg Trp Lys Lys Ser Ile Lys Ser
35 40 45

Asp Gln Asp Gly Gly Lys Lys Lys Lys Lys Lys Arg Gly Gly
50 55 60

<210> 5366
<211> 80
<212> PRT
<213> Homo sapiens

<400> 5366
Gln Leu Val Thr Val Glu Glu Ala Gly Trp Val Phe Ser Gly Pro Arg
1 5 10 15

Lys Phe Lys Met Ser Ala Met Leu Ser Ile Ile Thr Phe Cys Cys Gln
20 25 30

Lys Gly Trp Gln Ile Glu Ala Phe Leu Pro Ile Ala Phe Ser Glu Leu
35 40 45

Pro Cys Gln Ser Phe Thr Leu Gly Lys Glu Arg Trp Ala Gly Ile Leu
50 55 60

Gly Asn Arg Thr Pro Glu Thr Tyr Leu Cys Leu Pro Lys Asn Val Asp
65 70 75 80

<210> 5367
<211> 360
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (360)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5367
Leu Pro Gln Ala Gln Gly Asp Gln Phe Pro Trp Glu Gln Ala Glu Gly
1 5 10 15

Gln Ala Pro Gly Glu Asp Gly Gln Arg Leu Pro Asp Gln Ile His Pro
20 25 30

Gly Val Pro Ala Arg Arg Arg Pro Trp Trp Arg Glu Arg Ala Arg Ala
35 40 45

Val Arg Gly Leu Xaa Glu Gly Arg Glu Pro Glu Lys Arg Arg Glu Arg
50 55 60

Lys Gln Arg Arg Glu Gly Gly Asp Gly Glu Glu Gln Asp Val Gly Asp
65 70 75 80

Ala Gly Arg Leu Leu Leu Arg Val Leu His Val Ser Glu Asn Pro Val
85 90 95

Pro Leu Thr Val Arg Val Ser Pro Glu Val Arg Asp Val Arg Pro Tyr
100 105 110

Ile Val Gly Ala Val Val Arg Gly Met Asp Leu Gln Pro Gly Asn Ala
115 120 125

Leu Lys Arg Phe Leu Thr Ser Gln Thr Lys Leu His Glu Asp Leu Cys
130 135 140

Glu Lys Arg Thr Ala Ala Thr Leu Ala Thr His Glu Leu Arg Ala Val
145 150 155 160

Lys Gly Pro Leu Leu Tyr Cys Ala Arg Pro Pro Gln Asp Leu Lys Ile
165 170 175

Val Pro Leu Gly Arg Lys Glu Ala Lys Ala Lys Glu Leu Val Arg Gln
180 185 190

Leu Gln Leu Glu Ala Glu Glu Gln Arg Lys Gln Lys Lys Arg Gln Ser
195 200 205

Val Ser Gly Leu His Arg Tyr Leu His Leu Leu Asp Gly Asn Glu Asn
210 215 220

Tyr Pro Cys Leu Val Asp Ala Asp Gly Asp Val Ile Ser Phe Pro Pro
225 230 235 240

```
Ile Thr Asn Ser Glu Lys Thr Lys Val Lys Lys Thr Thr Ser Asp Leu
                245                 250                 255

Phe Leu Glu Val Thr Ser Ala Thr Ser Leu Gln Ile Cys Lys Asp Val
            260                 265                 270

Met Asp Ala Leu Ile Leu Lys Met Ala Glu Met Lys Lys Tyr Thr Leu
        275                 280                 285

Glu Asn Lys Glu Glu Gly Ser Leu Ser Asp Thr Glu Ala Asp Ala Val
    290                 295                 300

Ser Gly Gln Leu Pro Asp Pro Thr Thr Asn Pro Ser Ala Gly Lys Asp
305                 310                 315                 320

Gly Pro Ser Leu Leu Val Val Glu Gln Val Arg Val Val Asp Leu Glu
                325                 330                 335

Gly Ser Leu Lys Val Val Tyr Pro Ser Lys Ala Asp Leu Ala Thr Ala
            340                 345                 350

Pro Pro His Val Thr Val Val Xaa
        355                 360
```

<210> 5368
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5368

```
Ala Arg Xaa Pro Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
  1               5                  10                  15
```

<213> Homo sapiens

<400> 5371
Thr Val Leu Ser Leu Ala Gly Leu Leu Gly Gly Lys Tyr Leu Gln Asn
1 5 10 15

Asn Gly Ile Val Leu Gly Phe Leu Leu Ala Leu Glu Thr His Leu Phe
20 25 30

Thr Asn Arg Phe Pro Glu Asp Thr Leu Ile Ser Pro Ser Tyr Leu Pro
35 40 45

Glu Cys Leu Leu Met Ala Ser Leu Lys Lys Gly Gly Leu
50 55 60

<210> 5372
<211> 56
<212> PRT
<213> Homo sapiens

<400> 5372
Ser Ser Cys Pro Lys Ala Leu Trp Gly Pro Gly Trp Arg Ser Gln Gly
1 5 10 15

Ile Leu Tyr Asp Leu Ala Ile Gly Cys Lys Arg Lys His Ile Pro Cys
20 25 30

Cys Gly Ser Cys Ile Leu Phe His Ser Ser Pro Leu Lys Glu Lys Val
35 40 45

His Val Leu Ser Pro Ala His Pro
50 55

<210> 5373
<211> 238
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5373
Glu Lys Leu Ile Leu Leu Leu Ser Leu Pro Gly Ile Asp Ile Asn Xaa
1 5 10 15

Lys Asp Asn Ala Gly Trp Thr Pro Leu His Glu Ala Cys Asn Tyr Gly
20 25 30

Asn Thr Val Cys Val Gln Glu Ile Leu Gln Arg Cys Pro Glu Val Asp
35 40 45

Leu Leu Thr Gln Val Asp Gly Val Thr Pro Leu His Asp Ala Leu Ser
50 55 60

Asn Gly His Val Glu Ile Gly Lys Leu Leu Leu Gln His Gly Gly Pro
65 70 75 80

Val Leu Leu Gln Gln Arg Asn Ala Lys Gly Glu Leu Pro Leu Asp Tyr
85 90 95

Val Val Ser Pro Gln Ile Lys Glu Glu Leu Xaa Ala Ile Thr Lys Ile
100 105 110

Xaa Asp Thr Val Glu Asn Phe His Ala Gln Ala Glu Lys His Phe His
115 120 125

Tyr Gln Gln Leu Glu Phe Gly Ser Phe Leu Leu Ser Arg Met Leu Leu
130 135 140

Asn Phe Cys Ser Ile Phe Asp Leu Ser Ser Glu Phe Ile Leu Ala Ser
145 150 155 160

Lys Gly Leu Thr His Leu Asn Glu Leu Leu Met Ala Cys Lys Ser His
165 170 175

Lys Glu Thr Thr Ser Val His Thr Asp Trp Leu Leu Asp Leu Tyr Ala
180 185 190

Gly Asn Ile Lys Thr Leu Gln Lys Leu Pro His Ile Leu Lys Glu Leu
195 200 205

Pro Glu Asn Leu Lys Val Cys Pro Gly Val His Thr Glu Ala Leu Met
210 215 220

Ile Thr Leu Glu Met Met Cys Arg Ser Val Met Glu Phe Ser
225 230 235

<210> 5376
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5376
His Phe Thr Val Leu Phe Gly Ile Ile Leu Tyr Glu Ala Val Trp Ile
1 5 10 15

Gly Leu Leu Phe Pro Leu Val Asn Trp Leu Met Leu Arg Phe Trp Leu
20 25 30

Leu Glu Ser Ile Cys Val Phe Pro Val Leu Ala Ser His Tyr Val Ile
35 40 45

Cys Xaa Ile Phe
50

<210> 5377
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5377
Met Arg Leu Lys Ser Val Cys Val Cys Xaa Arg Ala Arg Met Trp Pro
1 5 10 15

Lys Asn Ser Ala Ile Met Ser Asn Ser Ser Phe Ala Leu Phe Leu Arg
20 25 30

Val Asp Asp Ile Arg His Phe Ser Val Phe Gly Glu Ile Asp Trp Asp
35 40 45

Thr Ser Pro Lys Pro Thr Gln Val Cys Asn Trp Lys Pro Gly Gly Trp
50 55 60

Phe Ser Gly Pro Leu Cys Pro Leu Ser Phe Thr Val Ile Leu Phe Thr
65 70 75 80

Ser Thr

<210> 5378
<211> 290
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5378
Thr Asn Ser Xaa Phe Asp Lys Gln Asn Asp Asp Pro Lys Glu Arg Ile
1 5 10 15

Asp Lys Asp Thr Lys Asn Val Asn Ser Asn Thr Gly Met Gln Thr Thr
20 25 30

Glu Asn Tyr Leu Thr Glu Lys Gly Asn Glu Arg Asn Val Lys Phe Pro
35 40 45

Pro Glu His Pro Val Glu Asn Asp Val Thr Gln Thr Val Ser Ser Phe
50 55 60

Ser Leu Pro Ala Ser Ser Arg Ser Lys Lys Leu Cys Asp Val Thr Thr
65 70 75 80

Gly Leu Lys Ile His Val Ser Ile Pro Asn Arg Ile Pro Lys Ile Val
85 90 95

Lys Glu Gly Glu Asp Asp Tyr Tyr Thr Asp Gly Glu Glu Ser Ser Asp
100 105 110

Asp Gly Lys Lys Tyr His Val Lys Ser Lys Ser Ala Lys Pro Ser Thr
115 120 125

Asn Val Lys Lys Ser Ile Arg Lys Lys Tyr Cys Lys Val Ser Ser Ser
130 135 140

Ser Ser Ser Ser Leu Ser Ser Ser Ser Ser Gly Ser Gly Thr Asp Cys
145 150 155 160

Leu Asp Ala Gly Ser Asp Ser His Leu Ser Asp Ser Ser Pro Ser Ser
165 170 175

Lys Ser Ser Lys Lys His Val Ser Gly Ile Thr Leu Leu Ser Pro Lys
180 185 190

```
His Lys Tyr Lys Ser Gly Ile Lys Ser Thr Glu Thr Gln Pro Ser Ser
        195                 200                 205

Thr Thr Pro Lys Cys Gly His Tyr Pro Glu Glu Ser Glu Asp Thr Val
    210                 215                 220

Thr Asp Val Ser Pro Leu Ser Thr Pro Asp Ile Ser Pro Leu Gln Ser
225                 230                 235                 240

Phe Glu Leu Gly Ile Ala Asn Asp Gln Lys Val Lys Ile Lys Lys Gln
                245                 250                 255

Glu Asn Val Ser Gln Glu Ile Tyr Glu Asp Val Glu Asp Leu Lys Asn
            260                 265                 270

Asn Ser Lys Tyr Leu Lys Ala Ala Lys Lys Gly Glu Glu Asn Leu Gly
        275                 280                 285

Leu Leu
    290
```

<210> 5379
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5379

```
Pro Lys Thr Ala Phe Asp Ser Cys Ser Pro Thr Cys Ser Ser Pro Ser
  1               5                  10                  15

Phe Leu His Leu Arg Asn Val Thr Ser Ser Ala Lys Ser Phe Pro Asp
             20                  25                  30

Leu Ser Lys Ile Ile Thr Ser Ser Val Cys Cys Gly Asn Leu Tyr Arg
         35                  40                  45

Met Val Gly Lys Phe Gln Val Ser Tyr Leu Asp
     50                  55
```

<210> 5380
<211> 152
<212> PRT
<213> Homo sapiens

<400> 5380

```
Lys Leu Leu Leu Phe Ser Leu Ser Ile Leu Leu Phe Phe Gly Lys Gln
```

```
  1               5                  10                  15

Ser Leu Ser Pro Val Met Gly Gly Gly Gly Trp Glu Arg Leu His Ser
             20                  25                  30

Thr Pro Trp Lys Trp Glu Tyr Pro Tyr Val Val Phe Gly Ile Phe Leu
         35                  40                  45

Tyr Gly Lys Phe Val Ser Pro Ser His Pro Asn Leu Phe Thr Ser Val
     50                  55                  60

Trp Thr His Val Tyr Phe Val Phe Trp Val Thr Gln Tyr Leu Phe Cys
 65                  70                  75                  80

Cys Leu Ser Cys Pro Ala Trp Leu Leu Gly Val Leu Pro Gly Trp Leu
                 85                  90                  95

Leu Cys Pro Phe Asp Val Pro Ile Leu Leu Ile Phe Glu His Phe Leu
            100                 105                 110

Leu Ser Gly Thr Thr Arg Cys Ser Arg Phe Ile Leu Asp Ile Pro Cys
        115                 120                 125

Pro Asn Pro Arg Ile Pro Arg Ile Asn Pro Cys Ser Lys Glu Pro Trp
    130                 135                 140

Phe Leu Leu Leu Glu Asn His Thr
145                 150
```

<210> 5381
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5381

```
Phe Leu Cys Ser Val Val Tyr Phe Phe Phe Leu Leu Leu Leu Ser Pro
  1               5                  10                  15

Leu Ser Pro Leu Lys Ala Gly Asn Arg Leu Leu Glu Asn Leu Arg Gly
             20                  25                  30

Lys Arg Ile Leu Phe Thr Gly Gly Ser Arg Lys Leu Ser Glu Arg Ser
         35                  40                  45
```

```
Ile Val Leu Ser Pro Phe Pro Leu Ser Phe Gln Phe Gly Xaa Trp Trp
     50                  55                  60

Ser Glu Glu Glu Lys Glu Ile Leu Cys Met Tyr Val
 65                  70                  75
```

<210> 5382
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5382

```
Gly Asp Asp Phe Gly Arg Asn Pro Phe Gly Thr Thr His Pro Ala Met
  1               5                  10                  15

Ser Val Glu Lys Trp Asn Cys Asn Pro Gln Glu Ser His Phe Ile Phe
             20                  25                  30

Leu Pro Phe Lys Trp Leu Ile Lys Gly Ser Ala Ser Ser Thr Gly Phe
         35                  40                  45

Met Glu
     50
```

<210> 5383
<211> 133
<212> PRT
<213> Homo sapiens

<400> 5383

```
Asn Ala His Ala Gly Arg Tyr Cys Ser Tyr Gln Tyr Phe Ala Phe Tyr
  1               5                  10                  15

Asn Lys Gly Leu Phe Ile Leu Met Pro Phe Leu Gln Asp Phe Phe Val
             20                  25                  30

Ile Ser Val His Met Lys Met Leu Thr Leu Asn Ile Asn Thr Trp Arg
         35                  40                  45

Pro Cys Pro Val Ala Leu Pro Trp Leu Pro Ala Trp Ser Val Phe Pro
     50                  55                  60

Cys Gly Phe Thr Cys Gly Pro Ala Val Ala Thr Ser Met Val Cys Val
 65                  70                  75                  80

Leu Val Asp Ser Leu Gln Leu Ser Asp Ala Ser Phe Cys His Asn His
                 85                  90                  95
```

Leu Phe Pro Asp Thr Ile Val Leu Ile Leu Phe Gln Asn Cys Lys Ile
100 105 110

Ile Ser Ser Leu Lys Cys Lys Gly Cys Phe Cys Ser Val Ser Val Phe
115 120 125

Phe Glu Ile Lys Leu
130

<210> 5384
<211> 74
<212> PRT
<213> Homo sapiens

<400> 5384
Tyr Leu Phe Ser Leu Leu Phe Met Ser Leu Cys Arg Ile Leu Gly Tyr
1 5 10 15

Ser Phe Ser Ser Arg Leu Ser Ser Leu Ile Leu Pro Leu Ala Val Phe
20 25 30

His Tyr Cys Leu Ser Cys Pro Leu His Phe Lys Leu Ser Phe Lys Tyr
35 40 45

Leu Pro Phe Pro Ser Phe Pro Phe Ser Ser Leu Pro Cys Pro Ala Leu
50 55 60

Pro Cys Pro Ala Leu Pro Ser Pro Pro Leu
65 70

<210> 5385
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5385
Ile Phe Asp Phe Phe His Gln Arg Phe Cys Phe Pro Ala Ile Asp Phe
1 5 10 15

Ala Tyr Leu Leu Leu Asp Leu Tyr Leu Lys Val Leu Ser Phe Trp Asn
20 25 30

Val Cys Phe Cys Thr Cys Phe Ala Asn Xaa Phe Leu Asn Ser Lys Phe
35 40 45

Tyr Cys Leu Ala Tyr Asn Asn Leu Asn Phe Xaa Tyr Ile Asn Pro Gly
50 55 60

Glu Lys Glu Pro Lys Xaa Thr
65 70

<210> 5386
<211> 74
<212> PRT
<213> Homo sapiens

<400> 5386
Leu Ala Asn Cys Ala Phe Lys Lys Lys Asn Arg Gln Thr Phe Glu Gly
1 5 10 15

Gln Glu Gly Ser Cys Pro Val Phe Gln Lys Ser Phe Phe Pro Ala Ile
20 25 30

Arg Asn Val Lys Pro Asn Leu Ala Thr Lys Ile Asn Glu Lys Met Gly
35 40 45

Phe Pro Leu Val Leu Ser Leu Ser Cys Ser Trp Leu Cys Tyr Val Leu
50 55 60

Ser Pro Arg Leu Tyr Pro Asp Lys Met Ser
65 70

<210> 5387
<211> 64
<212> PRT
<213> Homo sapiens

<400> 5387

```
Gly Lys Arg His Ile Phe Ser Leu Thr Gln Leu Ala Asp Thr Glu Val
 1               5                  10                  15

Gly Arg Trp Gln Glu Lys Ala Ser Thr Glu Leu Ile Gln Thr Cys Arg
            20                  25                  30

Lys Leu Pro Leu Leu Leu Leu Ser Lys Met Lys Gly Ser Gly Lys Arg
        35                  40                  45

His Leu Pro Phe Pro Ala Leu Arg Ile Leu Ala Ser Leu Ser Leu Tyr
    50                  55                  60
```

<210> 5388
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5388

```
Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly
 1               5                  10                  15

Ser Thr His Ala Ser Ala Asn Ser Phe Val Lys Phe Ala Asn Ile Glu
            20                  25                  30

Glu Asp Thr Pro Ser Tyr His Arg Arg Tyr Asp Phe Phe Val Ser Arg
        35                  40                  45

Phe Ser Ala Met Cys His Ser Cys His Ser Asp Pro Glu Ile Arg Thr
    50                  55                  60

Glu Ile Arg Ile Ala Gly Ile Arg Gly Ile Gln Gly Val Val Arg Lys
```

```
65                  70                  75                  80

Thr Val Asn Asp Glu Leu Arg Ala Thr Ile Trp Glu Pro Gln His Met
                85                  90                  95

Asp Lys Ile Val Pro Ser Leu Leu Phe Asn Met Gln Lys Ile Glu Glu
            100                 105                 110

Val Asp Ser Arg Ile Gly Pro Pro Ser Ser Pro Ser Ala Thr Asp Lys
        115                 120                 125

Glu Glu Asn Pro Ala Val Leu Ala Glu Asn Cys Phe Arg Glu Leu Leu
    130                 135                 140

Gly Arg Ala Thr Phe Gly Asn Met Asn Asn Ala Xaa Arg Pro Val Phe
145                 150                 155                 160

Ala His Leu Asp His His Lys Leu Xaa Asp Pro Asn Glu Phe Ala Val
                165                 170                 175

His Cys Phe Lys Ile Ile Met Tyr Ser Ile Gln Ala Gln Tyr Ser His
            180                 185                 190

His Val Ile Gln Glu Ile Leu Gly His Leu Asp Ala Arg Lys Lys Asp
        195                 200                 205

Ala Pro Gly Phe Glu Gln Val Leu Phe Arg Phe Xaa
    210                 215                 220
```

<210> 5389
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5389
Leu Cys Val Arg Cys Ser Lys Lys Val Ala Gln Ser Val Met Arg Lys
1 5 10 15

Leu Xaa Gly Tyr Ile Leu Ser Arg Met Asn Arg Gln Asp Ser Leu Lys
20 25 30

Asn Phe Leu Gly Asn Glu Lys Xaa Ala Xaa Cys Asn Xaa Phe Met Pro
35 40 45

Ile Ile Pro Asn Thr Xaa Gly Gly Leu Lys Gly Glu Asp His Phe Xaa
50 55 60

Pro
65

<210> 5390
<211> 121
<212> PRT
<213> Homo sapiens

<400> 5390
Ile Cys Glu Ile Leu Ser Leu Cys Pro Phe Pro Thr Ser Gly Pro Thr
1 5 10 15

Pro Gly Pro Ser Pro Thr Phe Leu Leu Ser Ser Leu Ala Val Val Ile
20 25 30

Ile Trp Gly Leu Tyr Cys Thr Tyr Pro Gly Cys Val Cys Val Gly Trp
35 40 45

Gly Gln Pro Phe Cys Thr Glu Leu Pro Gly Pro Leu Pro Pro Arg Pro
50 55 60

```
Ser Ala Ser Leu Pro Thr His His Leu Lys Gly Arg Glu Leu Leu Phe
 65                  70                  75                  80

Leu Pro Val Leu Phe Cys Phe Leu Val Leu Pro Pro His Pro Thr Pro
                85                  90                  95

Ser Leu Ile Tyr Pro Pro Ser Leu Ser Pro Phe Leu His Ser Gln Pro
            100                 105                 110

His Phe Leu Phe Phe Trp Ser Val Trp
        115                 120
```

<210> 5391
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5391

```
Phe Thr Asn Trp Arg Leu Leu Ile Leu Ile His Leu Arg Phe Lys Ile
  1               5                  10                  15

Phe Ile Asn Cys Lys Gln Cys Asn Tyr Leu Tyr Phe Thr Val Pro Ser
            20                  25                  30

Gln Thr Phe His Leu Arg Phe Cys Cys Lys Lys His Gln Val Ser Xaa
        35                  40                  45

Thr
```

<210> 5392
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5392

```
Leu Leu Ala Ala Gly Ile Ser Glu Glu Gly Leu Val Leu Ile Leu Lys
```

```
  1               5                  10                  15

Val Leu Cys Ser Cys Pro Arg Pro Glu Xaa Thr His Ala Glu Thr Leu
             20                  25                  30

Pro Ser Pro Ser Lys Val Gln Gly Leu Val Thr Glu Tyr Trp Val Glu
         35                  40                  45

His Met Thr Gly Ser Gln Leu Ile Pro Pro Ser Leu Pro Val Lys Pro
     50                  55                  60

Gln Asp Ser Cys Phe Pro Gly Ser His Leu Arg Pro Leu Arg
 65                  70                  75
```

<210> 5393
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5393

```
Val Leu His His Val Leu Ile His Leu Ile Leu Thr Glu Ile Val Asn
  1               5                  10                  15

Xaa Gly Ile Ile Leu Ile Leu Thr Leu Trp Ile Lys Lys Thr Lys Ala
             20                  25                  30

Gln Arg Val Lys Ala Ser Leu Pro Glu Ile Ile Asp Cys Lys Phe Glu
         35                  40                  45

Arg
```

<210> 5394
<211> 29
<212> PRT
<213> Homo sapiens

<400> 5394

```
Ile Leu Thr Pro Pro Leu Cys Asp Ile Gln Lys Leu Asn Ser Lys Cys
  1               5                  10                  15

Asn Lys His Leu Asn Ile Arg Ile Lys Thr Ile Lys Leu
```

20 25

<210> 5395
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5395
Ala Glu Ala Glu Phe Ala Met Asp Ser Asn His Gln Ser Asn Tyr Lys
1 5 10 15

Leu Ser Lys Thr Glu Lys Lys Phe Leu Arg Lys Gln Ile Lys Ala Lys
20 25 30

His Thr Leu Leu Arg His Glu Gly Ile Glu Thr Val Ser Tyr Ala Thr
35 40 45

Gln Ser Leu Val Val Ala Asn Gly Gly Leu Gly Asn Gly Val Ser Arg
50 55 60

Asn Gln Leu Leu Pro Val Leu Glu Lys Cys Gly Leu Val Asp Ala Leu
65 70 75 80

Leu Met Pro Pro Asn Lys Pro Tyr Ser Phe Ala Arg Tyr Arg Thr Thr
85 90 95

Glu Glu Ser Lys Arg Ala Tyr Val Thr Leu Asn Gly Lys Glu Val Val
100 105 110

Asp Asp Leu Gly Gln Lys Ile Thr Leu Tyr Leu Asn Phe Val Glu Lys
115 120 125

Val Gln Trp Lys Glu Leu Arg Pro Gln Ala Leu Pro Pro Gly Leu Met
130 135 140

Val Val Glu Glu Ile Ile Ser Ser Glu Glu Glu Lys Met Leu Leu Glu
145 150 155 160

Ser Val Asp Trp Thr Glu Asp Xaa Asp His Gln Asn Ser Gln Lys Ile

165 170 175

Leu Lys Thr Xaa Lys Ser Lys Ala Phe Trp Leu
180 185

<210> 5396
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5396
Phe Phe Pro Phe Gly Asn Ser Val Asn Pro Ala Val Gly Cys Cys Leu
1 5 10 15

Ser Asp Tyr Lys Arg Leu Gly Ser Cys Phe Cys Phe Lys Cys Leu Arg
20 25 30

Leu Trp Ser Tyr Thr Leu Val Leu Leu Gly Gln Ser Glu His Cys Leu
35 40 45

Leu Cys Lys Ile Ile Ser Phe Arg Val Xaa Ser Cys Gln Ile Tyr Trp
50 55 60

Pro Leu Ile Gln Tyr Ser Trp Val Tyr Cys Met
65 70 75

<210> 5397
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5397
Glu Asp Gln Glu Lys Lys Glu Leu Lys Met Glu Lys Ala Thr Val Arg
1 5 10 15

Thr Val Gly Tyr Arg Arg Arg Asn Ser Gly Ser Thr Xaa Asp Pro Pro
20 25 30

Pro Gly Xaa Met Ser Phe Gln Glu Trp Asn Pro Ser Leu Val Met Val
35 40 45

Ser Xaa Pro Val Leu Pro Ala Ser Thr Leu Pro Cys Pro Pro Arg Gly
50 55 60

Val Ser Glu Ser Ala Ser Gly Phe Leu Met Met Val Val Val Val Val
65 70 75 80

Val

<210> 5398
<211> 83
<212> PRT
<213> Homo sapiens

<400> 5398
Tyr Phe Val His His Asn Phe Cys Ile Tyr Phe Phe Lys Tyr Cys Ile
1 5 10 15

Lys Ile Ser Phe Ser Leu Ile Ile Glu Phe Phe Gly Leu Arg Phe Phe
20 25 30

Val Ala Ser Phe Phe Phe Ser Phe Phe Pro Pro Leu Phe Phe Gly Cys
35 40 45

Pro Leu Lys Phe Cys Pro Lys Ala Gly Thr Ser Leu Ile Ser Ser Leu
50 55 60

Ala Gln Pro Cys Trp Leu Val Phe Ser Ile Tyr Phe Ser Lys Ile Phe
65 70 75 80

Val Ser Val

<210> 5399
<211> 227
<212> PRT
<213> Homo sapiens

<400> 5399
Phe Ile Leu Arg Arg Leu Thr Met Asn Glu Leu Asn Ser Val Ser Asp
1 5 10 15

Leu Asp Arg Cys His Leu Tyr Leu Met Val Leu Thr Glu Leu Ile Asn
20 25 30

Leu His Leu Lys Val Gly Trp Lys Arg Gly Asn Pro Ile Trp Arg Val
35 40 45

Ile Ser Leu Leu Lys Asn Ala Ser Ile Gln His Leu Gln Glu Met Asp
50 55 60

Ser Gly Gln Glu Pro Thr Val Gly Ser Gln Ile Gln Arg Val Val Ser
65 70 75 80

Met Ala Ala Leu Ala Met Val Cys Glu Ala Ile Asp Gln Lys Pro Glu
85 90 95

Leu Gln Leu Asp Ser Leu His Ala Gly Pro Leu Glu Ser Phe Leu Ser
100 105 110

Ser Leu Gln Leu Asn Gln Thr Leu Gln Lys Pro His Ala Glu Glu Gln
115 120 125

Ser Ser Tyr Ala His Pro Leu Glu Cys Ser Ser Val Leu Glu Glu Ser
130 135 140

Ser Ser Ser Gln Gly Trp Gly Lys Ile Val Ala Gln Tyr Ile His Asp
145 150 155 160

Gln Trp Val Cys Leu Ser Phe Leu Leu Lys Lys Tyr His Thr Leu Ile
165 170 175

Pro Thr Thr Gly Ser Glu Ile Leu Glu Pro Phe Leu Pro Ala Val Gln
180 185 190

Met Pro Ile Arg Thr Leu Gln Ser Ala Leu Glu Ala Leu Thr Val Leu
195 200 205

Ser Ser Asp Gln Val Leu Pro Val Phe His Cys Leu Lys Val Leu Val
210 215 220

Pro Asn Phe
225

<210> 5400
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5400
Gln Thr Cys Arg Phe Leu Leu Met Trp Glu Lys Ile Leu Ile Ile Asn
1 5 10 15

Asp Ile Lys Val Ile Ile Phe Ser Tyr Val Tyr Arg Tyr Leu Tyr Phe
20 25 30

Phe Leu Asn Glu Leu Leu Met Thr Phe Val Tyr Phe Tyr Leu Gly Leu
35 40 45

Leu Leu Ser His Leu Phe Leu
50 55

<210> 5401
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5401
Gln Ala Arg Leu Pro Ser Ala Asn Leu Ser Asn Trp Gly Gly Glu Arg
1 5 10 15

Xaa Ser Ser Ser Glu Gly Arg Ala Arg Cys Gln Ile Cys Ser Ser Ala
20 25 30

Pro Ala Ser Ala Ala Arg Arg Arg Ala Glu Gly Ala Pro Gly Pro Arg
35 40 45

```
Pro Val Thr Gly Arg Ala Gly Ala Pro Ala Val Arg Gly Arg Arg Arg
     50                  55                  60

Gly Pro Cys Arg Cys Trp Gly Thr Arg Tyr Arg Pro Cys Xaa Pro Arg
 65                  70                  75                  80

Pro Pro Pro Xaa Gly Pro Leu Leu Ala Pro
                85                  90
```

<210> 5402
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5402

```
Ile Arg His Glu Glu Leu Arg Lys Glu Gly Phe Asp Pro Ala Ile Val
  1               5                  10                  15

Lys Asp Pro Leu Phe Tyr Leu Asp Ala Gln Lys Gly Arg Tyr Val Pro
             20                  25                  30

Leu Asp Gln Glu Ala Tyr Ser Arg Ile Gln Ala Gly Glu Glu Lys Leu
         35                  40                  45
```

<210> 5403
<211> 100
<212> PRT
<213> Homo sapiens

<400> 5403

```
Phe Gly Thr Arg Thr Lys Pro Ile Lys Pro Ala Leu Lys Ser Ala Glu
  1               5                  10                  15

Val Glu Leu Lys Thr Gly Gly Asn Asn Ser Asn Gln Val Ser Glu Thr
             20                  25                  30

Asp Glu Lys Glu Asp Leu Leu His Glu Asn Arg Leu Met Gln Asp Glu
         35                  40                  45

Ile Ala Arg Leu Arg Leu Glu Lys Asp Thr Ile Lys Asn Gln Asn Leu
     50                  55                  60

Glu Lys Lys Tyr Leu Lys Asp Phe Glu Ile Val Lys Arg Lys His Glu
```

65 70 75 80

Asp Leu Gln Lys Ala Leu Lys Arg Glu Trp Gly Asn Ile Ser Lys Asn
85 90 95

Asp Ser Leu Leu
100

<210> 5404
<211> 38
<212> PRT
<213> Homo sapiens

<400> 5404
Pro His Arg Thr Ala Phe Ser Cys Phe Ser Asp Thr Leu Met Lys Val
1 5 10 15

Trp Arg Ser Gly Asp Ile Ile Asp Lys Ile Tyr Gln Phe Pro Glu Lys
20 25 30

Thr Leu Asp Leu Lys Thr
35

<210> 5405
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5405
Asp His Thr Gly Gln Arg Gly Leu His Ser His Leu Arg Leu Gln Asp
1 5 10 15

Gly Arg Pro Ala Ala Gly Gly Thr Arg Gly His Arg Ala Pro Leu Pro
20 25 30

Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg
35 40 45

Pro Pro Pro Arg Trp Ser Thr Ser Phe Val Pro Leu Val Ser
50 55 60

<210> 5406
<211> 183
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5406

```
Leu Pro Pro Gln Ala Phe Asn His Ile Ala Lys Leu Cys Ser Leu Lys
  1               5                  10                  15

Arg Leu Val Leu Tyr Arg Thr Lys Val Glu Ile Glu Asp Tyr Asp Val
             20                  25                  30

Ile Ala Ser Met Ile Gly Ala Lys Cys Lys Lys Leu Arg Thr Leu Asp
         35                  40                  45

Leu Trp Arg Cys Lys Asn Ile Thr Glu Asn Gly Ile Ala Glu Leu Ala
     50                  55                  60

Ser Gly Cys Pro Leu Leu Glu Glu Leu Asp Leu Gly Trp Cys Gln Leu
 65                  70                  75                  80

Cys Arg Xaa His Arg Val Phe Thr Arg Leu Ala His Gln Leu Pro Asn
                 85                  90                  95

Leu Gln Lys Leu Phe Leu Thr Ala Asn Arg Ser Val Cys Asp Thr Asp
            100                 105                 110

Ile Asp Glu Leu Ala Cys Asn Cys Thr Arg Leu Gln Xaa Leu Asp Ile
        115                 120                 125

Leu Xaa Thr Arg Met Val Ser Pro Ala Ser Leu Arg Lys Leu Leu Glu
    130                 135                 140

Ser Cys Lys Asp Leu Ser Leu Leu Asp Val Ser Phe Cys Ser Gln Ile
145                 150                 155                 160

Asp Asn Arg Ala Val Leu Glu Leu Asn Ala Ser Phe Pro Lys Val Phe
                165                 170                 175

Ile Lys Lys Ser Phe Thr Gln
```

180

<210> 5407
<211> 89
<212> PRT
<213> Homo sapiens

<400> 5407
Ser Ser Trp Val Gly Gly Ser Leu Arg Gln Ala Ala Thr Leu Glu Gly
1 5 10 15

Glu Gln Gly Ser Ala Val Ser Ala Ala Ser His Ala Arg Ser Asp Leu
20 25 30

Ser Leu Gly Thr Pro Gln Glu Pro Glu Asp Ser Ser Gly Gln Cys Arg
35 40 45

Trp Gly Val Gly Gly Glu Ser Gly Arg Glu Ala Leu Arg Ala Pro Ser
50 55 60

Pro Thr Thr Asn Leu Ala Leu Val Val Ile Phe Arg Gln Asn Phe Val
65 70 75 80

Val Phe Phe Pro Phe Tyr Asp Gly Phe
85

<210> 5408
<211> 322
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5408
His Ile Xaa Thr His Thr Gly Glu Arg Pro Phe Lys Cys Pro Phe Glu
1 5 10 15

Gly Cys Gly Arg Ser Phe Thr Thr Ser Asn Ile Arg Lys Val His Val
20 25 30

Arg Thr His Thr Gly Glu Arg Pro Tyr Tyr Cys Thr Glu Pro Gly Cys
35 40 45

Gly Arg Ala Phe Ala Ser Ala Thr Asn Tyr Lys Asn His Val Arg Ile

```
     50                  55                  60

His Thr Gly Glu Lys Pro Tyr Val Cys Thr Val Pro Gly Cys Asp Lys
 65                  70                  75                  80

Arg Phe Thr Glu Tyr Ser Ser Leu Tyr Lys His His Val Val His Thr
                 85                  90                  95

His Ser Lys Pro Tyr Asn Cys Asn His Cys Gly Lys Thr Tyr Lys Gln
            100                 105                 110

Ile Ser Thr Leu Ala Met His Lys Arg Thr Ala His Asn Asp Thr Glu
        115                 120                 125

Pro Ile Glu Glu Glu Gln Glu Ala Phe Phe Glu Pro Pro Pro Gly Gln
    130                 135                 140

Gly Glu Asp Val Leu Lys Gly Ser Gln Ile Thr Tyr Val Thr Gly Val
145                 150                 155                 160

Glu Gly Asp Asp Val Val Ser Thr Gln Val Ala Thr Val Thr Gln Ser
                165                 170                 175

Gly Leu Ser Gln Gln Val Thr Leu Ile Ser Gln Asp Gly Thr Gln His
            180                 185                 190

Val Asn Ile Ser Gln Ala Asp Met Gln Ala Ile Gly Asn Thr Ile Thr
        195                 200                 205

Met Val Thr Gln Asp Gly Thr Pro Ile Thr Val Pro Ala His Asp Ala
    210                 215                 220

Val Ile Ser Ser Ala Gly Thr His Ser Val Ala Met Val Thr Ala Glu
225                 230                 235                 240

Gly Thr Glu Gly Gln Gln Val Ala Ile Val Ala Gln Asp Leu Ala Ala
                245                 250                 255

Phe His Thr Ala Ser Ser Glu Met Gly His Gln Gln His Ser His His
            260                 265                 270

Leu Val Thr Thr Glu Thr Arg Pro Leu Thr Leu Val Ala Thr Ser Asn
        275                 280                 285

Gly Thr Gln Ile Ala Val Gln Leu Gly Glu Gln Pro Ser Leu Glu Glu
    290                 295                 300

Ala Ile Arg Ile Ala Ser Arg Ile Gln Gln Gly Glu Thr Pro Gly Leu
305                 310                 315                 320

Asp Asp
```

<210> 5409
<211> 64
<212> PRT
<213> Homo sapiens

<400> 5409
Leu Arg Leu Gln Glu Pro Ala Thr Thr His Pro Cys Pro Pro Thr Leu
1 5 10 15

Gly Leu Ile Phe Val Thr Ser Pro His Tyr Ser Glu Leu Val Arg Pro
20 25 30

Leu His Phe Cys Phe Thr Gln Leu Thr Trp Phe Ala His Thr Asp Thr
35 40 45

Asn Lys His Leu Ser Ile Pro Met Ser Leu Leu Ser Ser Lys Asn Thr
50 55 60

<210> 5410
<211> 27
<212> PRT
<213> Homo sapiens

<400> 5410
Ser Thr His Ala Ser Gly Ser Arg Ser Arg Ala Ala Ala Leu Phe Phe
1 5 10 15

Phe Phe Lys Arg Phe Cys Thr Gly Lys Lys Lys
20 25

<210> 5411
<211> 205
<212> PRT
<213> Homo sapiens

<400> 5411
Ala Ala Ala Ala Ala Gly Asp Pro Gly Ala Met Gly Arg Ala Arg Asp
1 5 10 15

Ala Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys

```
            20                  25                  30

Phe Lys Leu Lys Leu Leu Ser Val Pro Leu Arg Glu Gly Tyr Gly Arg
         35                  40                  45

Ile Pro Arg Gly Ala Leu Leu Ser Met Asp Ala Leu Asp Leu Thr Asp
     50                  55                  60

Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr Gly Ala Glu Leu Thr Ala
 65                  70                  75                  80

Asn Val Leu Arg Asp Met Gly Leu Gln Glu Met Ala Gly Gln Leu Gln
                 85                  90                  95

Ala Ala Thr His Gln Gly Ser Gly Ala Ala Pro Ala Gly Ile Gln Ala
            100                 105                 110

Pro Pro Gln Ser Ala Ala Lys Pro Gly Leu His Phe Ile Asp Gln His
        115                 120                 125

Arg Ala Ala Leu Ile Ala Arg Val Thr Asn Val Glu Trp Leu Leu Asp
    130                 135                 140

Ala Leu Tyr Gly Lys Val Leu Thr Asp Glu Gln Tyr Gln Ala Val Arg
145                 150                 155                 160

Ala Glu Pro Thr Asn Pro Ser Lys Met Arg Lys Leu Phe Ser Phe Thr
                165                 170                 175

Pro Ala Trp Asn Trp Thr Cys Lys Asp Leu Leu Leu Gln Ala Leu Arg
            180                 185                 190

Glu Ser Gln Ser Tyr Leu Val Glu Asp Leu Glu Arg Ser
        195                 200                 205
```

<210> 5412
<211> 158
<212> PRT
<213> Homo sapiens

<400> 5412

```
Ser Cys Cys Arg Cys Arg Cys Ala Arg Ala Thr Gly Ala Arg Asp Ala
  1               5                  10                  15

Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys Phe
             20                  25                  30

Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr Gly Ala Glu Leu Thr Ala
         35                  40                  45
```

```
Asn Val Leu Arg Asp Met Gly Leu Gln Glu Met Ala Gly Gln Leu Gln
     50                  55                  60

Ala Ala Thr His Gln Gly Ser Gly Ala Ala Pro Ala Gly Ile Gln Ala
 65                  70                  75                  80

Pro Pro Gln Ser Ala Ala Lys Pro Gly Leu His Phe Ile Asp Gln His
                 85                  90                  95

Arg Ala Ala Leu Ile Ala Arg Val Thr Asn Val Glu Trp Leu Leu Asp
            100                 105                 110

Ala Leu Tyr Gly Lys Val Leu Thr Asp Glu Gln Tyr Gln Ala Val Arg
        115                 120                 125

Pro Ser Pro Pro Thr Gln Ala Arg Cys Gly Ser Ser Ser Val Ser His
    130                 135                 140

Gln Pro Gly Thr Gly Pro Ala Arg Thr Cys Ser Ser Arg Pro
145                 150                 155
```

<210> 5413
<211> 40
<212> PRT
<213> Homo sapiens

<400> 5413

```
Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Lys Lys Lys Gln Met Leu
  1               5                  10                  15

Lys Ser Tyr Trp Gln Ser Lys Leu Lys Leu Ala Ala Ile Phe Tyr Ile
             20                  25                  30

Ile Ile Ser Ala Asn Pro Ile Phe
         35                  40
```

<210> 5414
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5414
Ser Cys Leu Met Phe Phe Asn Met Pro Ser Tyr Lys Tyr Phe Ile Gln
1 5 10 15

Tyr Val Val Phe Val Asn Leu Thr Asn Asp Ile Lys His Lys Leu Gln
20 25 30

Cys Arg Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
50 55 60

Lys Gly Xaa Pro Phe
65

<210> 5415
<211> 186
<212> PRT
<213> Homo sapiens

<400> 5415
Ala His Ala Ser Asp Leu Arg Ala Glu Glu Ile Asp Pro Val Tyr Phe
1 5 10 15

Asp Leu His Pro Gly Gln Gly His Thr Lys Pro Glu Tyr Tyr Tyr Pro
20 25 30

Asn Phe Leu Pro Ser Pro Phe Ser Ser Trp Asp Leu Arg Asp Met Ala
35 40 45

Leu Leu Leu Asn Ala Glu Asn Lys Thr Glu Ala Val Pro Arg Val Gly
50 55 60

Gly Leu Leu Gly Lys Tyr Ile Asp Arg Leu Ile Gln Leu Glu Trp Leu
65 70 75 80

Gln Val Gln Thr Val Gln Cys Glu Lys Ala Lys Gly Gly Lys Ala Arg
85 90 95

Pro Pro Thr Ala Pro Gly Thr Ser Gly Ala Leu Lys Ser Pro Gly Arg
100 105 110

Ser Lys Leu Ile Ala Ser Ala Leu Ser Lys Pro Leu Pro His Gln Glu
115 120 125

Gly Ala Ser Lys Ser Gly Pro Ser Arg Lys Lys Ala Phe His His Glu
130 135 140

```
Glu Ile His Pro Ser His Tyr Ala Phe Glu Thr Ser Pro Arg Pro Ile
145                 150                 155                 160

Asp Val Leu Gly Gly Thr Arg Phe Cys Ser Gln Arg Gln Thr Leu Glu
                165                 170                 175

Met Arg Thr Glu Glu Lys Lys Lys Lys Lys
            180                 185
```

<210> 5416
<211> 39
<212> PRT
<213> Homo sapiens

<400> 5416

```
Cys Tyr Ser Cys Gln Thr Asn Ser Ala Lys Ile Phe Lys Val Thr Arg
  1               5                  10                  15

Gly Lys Arg Met Thr Asn Arg Ser Ala Ser Glu Tyr Ile Phe Gln Asn
             20                  25                  30

Val Gly Lys Lys Leu Leu Asn
         35
```

<210> 5417
<211> 54
<212> PRT
<213> Homo sapiens

<400> 5417

```
Gly Ile Ser Ser Gly Arg Thr Arg Arg Glu Ser Cys Glu Leu Tyr Cys
  1               5                  10                  15

Ile Met Tyr Ile Pro Asp Leu Ile Leu Tyr Arg Thr Phe Tyr Ser Asp
             20                  25                  30

Ile Asn Leu Leu His Lys His Phe Ser Asn Asp Thr Lys Ile Thr Asp
         35                  40                  45

Lys Ile Tyr Tyr Ile Gln
     50
```

<210> 5418
<211> 91
<212> PRT

<213> Homo sapiens

<400> 5418
Val Pro Pro Thr Pro Gly Gln His Gln Asp Gly Ser Ser Leu Gly Ala
1 5 10 15

Phe Val Ser Pro Pro Cys Leu Cys Ser Glu Cys Ala Pro His Phe Ser
20 25 30

Ala Thr Leu Thr Leu Ser Leu Ile Trp Ser Cys Leu Thr Ser Leu Leu
35 40 45

Tyr Ala Leu Leu Leu Ser Ile Ser Ser Ala Leu Met Pro Ala Gly Val
50 55 60

Met Pro Glu Ile Ile Ser Glu Lys Ala Arg Gln Phe Cys Val Cys Val
65 70 75 80

Cys Ala His Arg Gly Val Leu Val Val Leu Ile
85 90

<210> 5419
<211> 36
<212> PRT
<213> Homo sapiens

<400> 5419
Val Lys Asn Gly Lys Gln Lys Val Thr Ala Val Met Asn Ile Leu Val
1 5 10 15

Gln Ile Leu Val Leu Asn Leu Thr Pro Glu Ser Lys Ile Leu Gly Ser
20 25 30

Leu Phe Pro Val
35

<210> 5420
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5420
Lys Ser Lys Glu Asn Arg Asn Gln Phe Glu Gly Leu Gln Gly Gly Leu
1 5 10 15

Leu Ala Gln Leu Ser Ile Asn Thr Tyr Gly Val Ile Ala Val Phe Ser
20 25 30

Arg Gly Val Leu Leu Arg Ser Gly Phe Leu Gly Leu His Ala Ala Met
35 40 45

Asp Leu Asp Xaa Pro Ser Val Trp Gly Ser Leu Lys Gln Arg Thr Arg
50 55 60

Pro Leu Leu Ile Asn Leu Ser Xaa Lys Lys Val Lys Lys Asn Pro Ser
65 70 75 80

Lys Pro Pro Asp Leu Arg Ala Arg His His Leu Asp Arg Arg Leu Xaa
85 90 95

<210> 5421
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5421
Gln Asn Ile Ser Ser Xaa Leu Ile Gly Pro Thr Xaa Val Phe Arg Val
1 5 10 15

Met Lys Leu Arg Phe Phe Cys Val Trp Leu His His Glu Ile Leu Arg
20 25 30

Arg Pro Lys Pro
35

<210> 5422
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5422
Xaa Lys Cys Lys Tyr Lys Thr Phe Gln Ile Lys Ile Glu Tyr Ala His
1 5 10 15

Cys Ser Lys Ala Lys Leu Leu Pro Tyr Tyr Ile Tyr Phe Thr Ser Leu
20 25 30

Ile Phe Ser Pro Ser Lys Met His Trp Tyr Ser Gly Leu Glu Ser Glu
35 40 45

Ser Phe Ala Ile Lys Leu Thr Tyr Xaa Gly Phe Asn Pro Leu Lys Val
50 55 60

Gln
65

<210> 5423
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5423
Gly Thr Ser Arg Pro Ser His Tyr His Val Leu Trp Asp Asp Asn Cys
1 5 10 15

```
Phe Thr Ala Asp Glu Leu Gln Leu Leu Thr Tyr Gln Leu Cys His Thr
            20                  25                  30

Tyr Val Arg Cys Thr Arg Ser Val Ser Ile Pro Ala Pro Ala Tyr Tyr
        35                  40                  45

Ala His Leu Val Ala Phe Arg Ala Arg Tyr His Leu Val Asp Lys Glu
    50                  55                  60

His Asp Arg
65
```

<210> 5424
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5424

```
Pro Ile Gly Trp Lys Thr Arg Pro Ile Glu Glu Leu Gly Asn Val Ser
 1               5                  10                  15

Phe Cys Tyr Phe Cys Tyr Ser Ser Leu Gly Phe Ile Val Ser Phe Phe
            20                  25                  30

Ile Phe Lys Ile Leu Cys Leu Lys Val Phe Leu Leu Asn Tyr Glu Val
        35                  40                  45

Asp Met His Val Tyr Ile Tyr Val Lys Tyr Leu Leu Cys Lys Val Phe
    50                  55                  60

Phe Val Tyr Ser Leu Lys Arg Ser Leu Tyr Leu Asn Lys Ser Glu Gly
65                  70                  75                  80

Gln Gln Xaa Lys Xaa Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
                85                  90                  95
```

20 25 30

Asn Ala Glu Ile Lys Thr Val Gln Gln Thr Phe Pro His Pro Gln Gln
35 40 45

Lys Ser Xaa Asn Lys Gly Lys Ser Cys Cys Met Xaa Asn Leu Asn Lys
50 55 60

Ile Gly Phe Pro Ala Gly Xaa Phe Gly Xaa Asn Phe Pro Pro Leu Asn
65 70 75 80

Val Pro

<210> 5427
<211> 168
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5427
Arg Gly Leu Ala Xaa Lys His Pro Gly Arg Val Gly Gln Ala Ala Leu
1 5 10 15

Tyr Gly Cys Gly Cys Trp Ala Glu Asn Thr Gly Ala His Asn Pro Tyr
20 25 30

Ser Thr Ala Val Ser Thr Ser Gly Cys Gly Glu His Leu Val Arg Thr
35 40 45

Ile Leu Ala Arg Glu Cys Ser His Ala Leu Gln Ala Glu Asp Ala His
50 55 60

Gln Ala Leu Leu Glu Thr Met Gln Asn Lys Phe Ile Ser Ser Pro Phe
65 70 75 80

Leu Ala Ser Glu Asp Gly Val Leu Gly Gly Val Ile Val Leu Arg Ser
85 90 95

Cys Arg Cys Ser Ala Glu Pro Asp Ser Ser Gln Asn Lys Gln Thr Leu
100 105 110

Leu Val Glu Phe Leu Trp Ser His Thr Thr Glu Ser Met Cys Val Gly
115 120 125

```
Tyr Met Ser Ala Gln Asp Gly Lys Ala Lys Thr His Ile Ser Arg Leu
    130                 135                 140

Pro Pro Gly Ala Val Ala Gly Gln Ser Val Ala Ile Glu Gly Gly Val
145                 150                 155                 160

Cys Arg Leu Glu Ser Pro Val Asn
                165
```

<210> 5428
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5428

```
Phe Asn Phe Glu Phe Lys Pro Lys Phe Ile Gly Arg Leu Pro Phe Asp
  1               5                  10                  15

Leu Pro Leu Pro Pro His Leu Val Leu Ser Cys Ile Tyr Thr Pro Gly
             20                  25                  30

Pro Cys Gly Gly Ala Ala Gly Gly Ser Cys Ala Pro Glu Met Arg Leu
         35                  40                  45

Glu Arg Glu Leu Ala Ser Leu Leu Pro Ser Ser Val Ser Lys Glu Pro
     50                  55                  60

Arg Pro Ser Gly Pro Ala Ser Xaa Lys Arg Trp Trp Asn Pro Cys Ala
 65                  70                  75                  80

Gly
```

<210> 5429
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5429
Tyr Met Leu Gly Glu Lys Ile Tyr Glu Asn Phe Thr Ile Ile Phe Cys
1 5 10 15

Leu Asp Asn Arg Ser Glu Gly Phe Tyr Pro Thr Trp Lys Val Lys Gly
20 25 30

Leu Gly Leu Thr Asp Phe Leu Xaa Phe Ser Leu Asp Phe Met Lys Ser
35 40 45

Met Leu Ser Phe Ser Gln Lys His
50 55

<210> 5430
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5430
Gln Cys Arg Glu Val His Leu Glu Lys Arg Arg Gly Glu Gly Leu Gly
1 5 10 15

Val Ala Leu Val Glu Ser Gly Trp Gly Ser Leu Leu Pro Thr Ala Val
20 25 30

Ile Ala Asn Leu Leu His Gly Gly Pro Xaa Glu Arg Ser Gly Ala Leu
35 40 45

Ser Ile Gly Asp Pro Leu Thr Gly Xaa Lys Gly Asp Gln Pro
50 55 60

<210> 5431
<211> 133
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5431

```
Phe Leu Gln His Trp Ala Ile Arg Asn Asn Phe Leu Lys Ile Thr Val
  1               5                  10                  15

Leu Tyr Lys Tyr Leu Lys Phe Lys Tyr Arg Lys Tyr Leu Lys Gln Lys
             20                  25                  30

Ala Leu Leu Xaa Gly His Asp Thr Ser Ala Leu Trp Gln Cys Arg Leu
         35                  40                  45

Leu Arg Thr Gln Pro Cys Ser Pro Ser Val Cys Ala Pro Ser Leu Ser
     50                  55                  60

Ser Phe Ala Val Ile Thr His Thr Gly Leu Pro Val Trp Ser Leu Glu
 65                  70                  75                  80

Lys Pro Gly Phe Gln Ser Thr Val Glu His Arg Ile Leu Leu Leu Val
                 85                  90                  95

Trp Met Phe Asn Glu Leu Tyr Phe Lys Tyr Gln Arg Leu Leu Asn Lys
            100                 105                 110

Asp Asn Val Cys Phe Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
        115                 120                 125

Xaa Xaa Lys Xaa Lys
    130
```

<210> 5432

<211> 64
<212> PRT
<213> Homo sapiens

<400> 5432
Val Lys Gly Glu Trp Ser Gln Tyr Pro Gln Lys Cys Ser Lys Arg Ser
1 5 10 15

Asn Ser Pro Leu Lys Met Ser Leu Phe Leu Ser Met Leu Tyr Pro Gly
20 25 30

Val Leu Val Glu Gly Trp Gly Asn Gln Lys Ser Arg Phe Thr Phe Asn
35 40 45

Ile Phe Leu Asn Tyr Ile His Phe Leu Lys Arg Asn Lys Lys Cys Lys
50 55 60

<210> 5433
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5433
His Ile Arg Asn Lys Ile Leu Gly Tyr Phe Ile Xaa Leu Ala Tyr Phe
1 5 10 15

Phe His Asn Leu Arg Ile Thr Val Phe Val Glu Glu Ile Arg Gln Ala
20 25 30

Asn Lys Val Ala Lys Glu Ala Ala Asn Arg Trp Thr Asp Asn Ile Phe
35 40 45

Ala Ile Lys Ser Trp Ala Lys Arg Lys Phe Gly Phe Glu Glu Asn Lys
50 55 60

Ile Asp Arg Thr Phe Gly Ile Pro Glu Asp Phe Asp Tyr Ile Asp
65 70 75

<210> 5434

<211> 183
<212> PRT
<213> Homo sapiens

<400> 5434
Gly Leu Leu Val Gly Val Gly Ala Ala Ala Val Met Pro Gly Ile Val
1 5 10 15

Glu Leu Pro Thr Leu Glu Glu Leu Lys Val Asp Glu Val Lys Ile Ser
20 25 30

Ser Ala Val Leu Lys Ala Ala Ala His His Tyr Gly Ala Gln Cys Asp
35 40 45

Lys Pro Asn Lys Glu Phe Met Leu Cys Arg Trp Glu Glu Lys Asp Pro
50 55 60

Arg Arg Cys Leu Glu Glu Gly Lys Leu Val Asn Lys Cys Ala Leu Asp
65 70 75 80

Phe Phe Arg Gln Ile Lys Arg His Cys Ala Glu Pro Phe Thr Glu Tyr
85 90 95

Trp Thr Cys Ile Asp Tyr Thr Gly Gln Gln Leu Phe Arg His Cys Arg
100 105 110

Lys Gln Gln Ala Lys Phe Asp Glu Cys Val Leu Asp Lys Leu Gly Trp
115 120 125

Val Arg Pro Asp Leu Gly Glu Leu Ser Lys Val Thr Lys Val Lys Thr
130 135 140

Asp Arg Pro Leu Pro Glu Asn Pro Tyr His Ser Arg Pro Arg Pro Asp
145 150 155 160

Pro Ser Pro Glu Ile Glu Gly Asp Leu Gln Pro Ala Thr His Gly Ser
165 170 175

Arg Phe Tyr Phe Trp Thr Lys
180

<210> 5435
<211> 65
<212> PRT
<213> Homo sapiens

<400> 5435
Gly Thr Gly Cys Cys Ala Glu Gly Arg Pro Glu Ser Gln Ser Ile Phe
1 5 10 15

Phe Thr Gly Ser Ala Gly Thr Gly Lys Ser Tyr Leu Leu Lys Arg Ile
20 25 30

Leu Gly Ser Leu Pro Pro Thr Gly Thr Val Ala Thr Ala Ser Thr Gly
35 40 45

Val Ala Ala Cys His Ile Gly Gly Thr Thr Leu His Ala Phe Ala Gly
50 55 60

Lys
65

<210> 5436
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5436
His Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
1 5 10 15

Gln Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
20 25 30

Arg Xaa Arg Glu Leu Val Ser Ser Phe Xaa Phe Xaa Phe Phe His Gly
35 40 45

<210> 5437
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5437
Glu Leu Trp Ser Pro Cys Leu Val Leu Phe Lys Thr Leu Cys Tyr Thr
1 5 10 15

Gly Val Asp Pro Gly Leu Lys Val Ile Gln Phe Trp Gly Leu Ser Leu
20 25 30

Arg Lys Arg Ile Leu Lys Tyr Leu Thr Phe Ala Asn Ile Xaa Lys Ile
35 40 45

Tyr Cys His Ile Asn Met Leu Leu Gly Pro Leu Leu Gly Pro
50 55 60

<210> 5438
<211> 163
<212> PRT
<213> Homo sapiens

<400> 5438
Ser Phe Phe Phe Phe Ser Arg Ser His Val Ser Leu Leu Leu Pro Thr
1 5 10 15

Ala Thr Tyr Phe Ile Pro His Gly Ser Arg His Ser Ser Thr Leu Thr
20 25 30

Asn Phe Leu Thr Pro Ser Ser Phe Leu Glu Ile Ile Ser Ser Pro Cys
35 40 45

Ala Glu Thr Val Ile Ala Leu Ser Ala Glu Met Ala Val Ser Ser Gln
50 55 60

```
Gln Gly Glu Ile Met Glu Ser Arg Ile Phe Phe Gln Gly Ser His Ala
 65                  70                  75                  80

His Phe Pro Thr Cys Met Asn Val Asp Thr Ala Ala Thr Val Leu Ala
                 85                  90                  95

Val Asn Val Asn Leu Ala Ser Asn His Cys Ser Gln Gly Asn Val Pro
            100                 105                 110

Ile Arg Arg Arg Leu Ser Gly Thr Leu Ile Leu Thr Gly Arg Trp Asp
        115                 120                 125

Ile Leu Arg Asp Pro Glu Ala Gly Cys His Leu Leu Asn Phe Pro Glu
    130                 135                 140

Gly Cys Leu Gly Ile Cys Phe Leu Phe Ile Leu Glu Leu Phe Phe Leu
145                 150                 155                 160

Phe Met Gly
```

<210> 5439
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5439

```
Gln Gly Ile Leu Tyr Phe His Tyr Asn Gln Ile Ile Glu Ile Thr Cys
  1               5                  10                  15

Val Lys Gly Leu Gln Glu Tyr Ile Gln Phe Leu Asn Ile Leu Ile Tyr
             20                  25                  30
```

Leu Leu Ser Asp Asn Leu Ile Leu Leu Asn Tyr His Leu Pro Leu Ser
35 40 45

Tyr Phe Ile Ile Asn Ser Val Gln Phe Pro Pro Lys Lys Xaa Xaa Tyr
50 55 60

Leu Xaa Asn Ile
65

<210> 5440
<211> 170
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5440
Val Ile Pro Trp Arg Thr Xaa Ser Ala Asn Xaa Glu Xaa Asp Leu His
1 5 10 15

Tyr Leu Xaa Leu Xaa Thr Xaa Thr Trp Ser Gly Arg Ile Thr Ile Asn
20 25 30

Gly Glu Ser Pro Lys His Arg Ser Trp His Thr Leu Thr Pro Ile Ala
35 40 45

Asp Asp Lys Leu Phe Leu Cys Gly Gly Leu Ser Ala Asp Asn Ile Pro
50 55 60

Leu Ser Asp Gly Trp Ile His Asn Val Thr Thr Asn Cys Trp Lys Gln
65 70 75 80

Leu Thr His Leu Pro Lys Thr Arg Pro Arg Leu Trp His Thr Ala Cys
85 90 95

Leu Gly Lys Glu Asn Glu Ile Met Val Phe Gly Gly Ser Lys Asp Asp
100 105 110

Leu Leu Ala Leu Asp Thr Gly His Cys Asn Asp Leu Leu Ile Phe Gln
115 120 125

Thr Gln Pro Tyr Ser Leu Leu Arg Ser Cys Leu Asp Cys Ile Gly Lys
130 135 140

Asn Ser Ile Met Leu Glu Ser Gln Ile Ser Leu Leu Pro Pro Lys Leu
145 150 155 160

Leu Gln Xaa Val Leu Lys Lys Lys Lys Lys
165 170

<210> 5441
<211> 120
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5441
Ile Gly Ser Val Pro Ala Val Pro Asn Gly Gln Cys Ile Gly Lys His
1 5 10 15

Lys Lys Cys Asp His Asn Val Asp Cys Ser Asp Lys Ser Asp Glu Leu
20 25 30

Asp Cys Tyr Pro Thr Glu Glu Pro Ala Pro Gln Ala Thr Asn Thr Val
35 40 45

Gly Ser Val Ile Gly Val Ile Val Thr Ile Phe Val Ser Gly Thr Val
50 55 60

Tyr Phe Ile Cys Gln Arg Met Leu Cys Pro Arg Met Lys Gly Asp Gly
65 70 75 80

Glu Thr Met Thr Asn Asp Tyr Val Val His Gly Pro Ala Ser Val Pro
85 90 95

Leu Gly Tyr Val Pro His Pro Ser Ser Leu Ser Gly Ser Leu Xaa Xaa
100 105 110

Met Ser Arg Gly Lys Ser Met Ile
115 120

<210> 5442
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5442
Asn Met Tyr Lys Asn Gly Tyr Lys Met Val Glu Ala Thr Arg Ser Val
1 5 10 15

Thr Gly Ile Ile His Ile Asn Thr Thr Lys Ile Gln Phe Asn Ala Lys
20 25 30

Leu Asn Asp Ile Ile Leu His Gln Asn Leu Phe His Thr Lys Ala His
35 40 45

Ala Ser Arg Val Ser Ile Arg
50 55

<210> 5443
<211> 125
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5443
Leu Leu Lys Arg Ser His Phe Asn Cys Phe Cys Tyr Ser Ile Tyr Cys
1 5 10 15

His Ser Lys Tyr Ile Leu Thr Gln Asn Lys Leu Asn Asn Leu Cys Met
20 25 30

Phe Val Cys Val Tyr Met His Thr Leu Phe Tyr Ile Lys Ile Leu Arg
35 40 45

Leu Tyr Ser His Cys Ala Leu Trp Asn Lys Ala Ile Tyr Ile Asn Val
50 55 60

Leu Tyr Val Tyr Val Leu Tyr Ile Xaa Lys Thr Phe His Leu Ile Tyr
65 70 75 80

Ile Cys Val Xaa Glu Tyr Met Cys Ala Cys Leu Ala Asp Ile Cys Ile
85 90 95

Lys Tyr Lys His Ser Val Val Ile Xaa Ala Ile Cys Glu Ile Val Asn
100 105 110

Phe Lys Ile Thr Ser Gly His Arg Leu Val Val Ile Ile
115 120 125

<210> 5444
<211> 287
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5444

```
Gly Ala Met Ala Pro Lys Pro Gly Ala Glu Trp Ser Thr Ala Leu Ser
  1               5                  10                  15

His Leu Val Leu Gly Val Val Ser Leu His Ala Ala Val Ser Thr Ala
             20                  25                  30

Glu Ala Ser Arg Gly Ala Ala Ala Gly Phe Leu Leu Gln Val Leu Ala
         35                  40                  45

Ala Thr Thr Thr Leu Ala Pro Gly Leu Ser Thr His Glu Asp Cys Leu
     50                  55                  60

Ala Gly Ala Trp Val Ala Thr Val Ile Gly Leu Pro Leu Leu Ala Phe
 65                  70                  75                  80

Asp Phe His Trp Val Asn Gly Asp Arg Ser Ser Ala Asn Leu Leu Leu
                 85                  90                  95

Gly Gly Gly Met Val Leu Ala Val Ala Gly Gly His Leu Gly Pro Glu
            100                 105                 110

Ala Xaa Cys Gly Trp Ser Gly Asn Ala Val Gly Gly Arg Ser Asp His
        115                 120                 125

Pro His Cys Ser Cys Leu His Gly Gln His Leu Trp Asp Val Gly Gly
    130                 135                 140

Gly Asp Ala Gly Cys Gly Arg Pro Pro Glu Pro Ala Gly Gly Gly Gln
145                 150                 155                 160

Ala Ala Ala Ala Thr Glu Gly Gly Cys Leu Ser Leu Gly Leu Gly Cys
                165                 170                 175

Arg Gln Leu Gly Leu Leu Pro Gly Pro Ala Tyr Thr Ala Pro Pro Val
            180                 185                 190

Gly Val Thr Val Gly Tyr Ser Gln Ala Gly Phe Leu Pro Cys Arg Thr
        195                 200                 205

Leu Ser Leu Pro Pro Ala Cys Ser Trp Arg Leu Leu Pro Arg Gly Arg
    210                 215                 220

Leu Phe Cys Leu Leu Lys Trp Val Cys Cys Thr Leu Thr Gly Gln Gly
225                 230                 235                 240

Gln Ser Leu Gly Ala Val Leu Trp Pro Arg Val Gly Thr Cys Leu Asp
                245                 250                 255
```

```
Gln Asn Glu Arg Asp Arg Val Pro Asp Thr Phe Gly Gly Pro Asp Ser
            260                 265                 270

Gly Leu Asp Thr Val Val Asp Pro Glu Lys Arg Pro Ser Leu Gln
        275                 280                 285
```

<210> 5445
<211> 57
<212> PRT
<213> Homo sapiens

<400> 5445

```
Ser His Ala Cys Pro Leu Thr Phe Thr Arg Asn Ser Glu Lys Gln Ser
  1               5                  10                  15

Thr Tyr Phe Ala Thr Gln Trp Ser Ser Ser Leu Asn Thr Phe Ile Gln
             20                  25                  30

Arg Ser Thr Asn Tyr Asp Pro Pro Val Lys Ser Tyr Leu Ala Leu Val
         35                  40                  45

Phe Val Asn Lys Val Leu Leu Glu His
     50                  55
```

<210> 5446
<211> 100
<212> PRT
<213> Homo sapiens

<400> 5446

```
Trp Cys Ser Arg Ala Val Pro Pro Pro Ser Leu Leu Pro Ala Ser Thr
  1               5                  10                  15

Ser Pro Pro Arg Ser Val Pro Pro Pro Ser Phe Ser Leu Ser Leu Lys
             20                  25                  30

Ser Val Ser Phe Gly Ser Pro Arg Ala Ser Leu Pro Arg Pro Ser Trp
         35                  40                  45

Met Arg Pro Pro Ser Pro Lys Pro Ala Cys Phe Ala Val Ser Pro Gly
     50                  55                  60

Ser Trp Lys Leu Ala Gly Ala Arg Gly Trp Arg Gly His Gly Gly Val
 65                  70                  75                  80

Gly Glu Gly Ser Leu Pro Phe Leu Val Arg Ser Ile Ile Val Asn Gly
                 85                  90                  95
```

Cys Thr Leu Phe
100

<210> 5447
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5447
Arg Ser Trp Gly Ser Xaa Trp Lys Gln Glu Asp Pro Ile Gln Gln Arg
1 5 10 15

Pro Leu Arg Leu Val Leu His Phe Leu Arg Glu Leu Ser Val Gly Ser
20 25 30

His His Pro Ala His Trp Leu Pro Pro Lys Pro Pro Pro Leu Thr Ser
35 40 45

Ala Asn Leu Leu Phe Gly Asp Pro Leu Ser Asp Pro Leu Cys Leu Pro
50 55 60

Ser Trp Ser Ser Ser Trp Arg Ile Ser Gly Gln Arg Gly Gly Gln Arg
65 70 75 80

Ser Phe Pro Ile Pro Pro Gln Arg Tyr Phe Leu Leu Gly Pro His Thr
85 90 95

Leu Thr Pro Ser Ser Glu Met Asn Thr Phe Leu Leu Leu Leu Leu Arg
100 105 110

Gln Ser Glu Thr Pro Ser
115

<210> 5448
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5448
Leu Leu Val Ser Asp Leu Thr Leu Leu Ser Lys Tyr Ser Ile Ile Ala
1 5 10 15

```
Arg Phe Thr Glu Phe Arg Ser Leu Lys Val Tyr Ile Leu Phe Pro Tyr
            20                  25                  30

Val Asp Lys Leu Val Ser Leu Leu Leu Glu Tyr His Lys Val Phe Val
        35                  40                  45

Lys Ile Thr Gln Val Ile Lys
    50                  55
```

<210> 5449
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5449

```
His Ala Phe Phe Leu Lys Leu Phe Arg Val Val Glu Ile Ala Ala Cys
  1               5                  10                  15

His Ser Xaa His Thr Ser Ala Ala Lys Thr Gln Gly Gly His Val Tyr
            20                  25                  30

Met Trp Gly Gln Cys Arg Gly Gln Ser Val Ile Leu Pro His Leu Thr
        35                  40                  45

His Phe Ser Cys Thr Asp Asp Val Phe Ala Cys Phe Ala Thr Pro Ala
    50                  55                  60

Val Ser Trp Arg Leu Leu Ser Val Gly Lys Lys Val Gln Gly His Phe
65                  70                  75                  80

Thr Gln Gly Gly Met Val Leu Pro Thr Asp Gln Phe Ser Cys Val Phe
                85                  90                  95

Ala Gly
```

<210> 5450
<211> 186
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5450
Gly Gly Xaa Asp Gln Gly Gln Glu Pro Gly Pro Leu Glu Glu Gln Gln
1 5 10 15

Arg Leu Ala His Leu Glu Asp Lys Leu Arg Leu Leu Ala Gln Ala Arg
20 25 30

Asp Glu Ala Gln Gly Ala Cys Leu Gln Gln Lys Gln Val Val Ala Glu
35 40 45

Ala Gln Thr Arg Val Ser Gln Leu Gly Leu Gln Val Glu Gly Leu Arg
50 55 60

Arg Arg Leu Glu Glu Leu Gln Gln Glu Leu Ser Leu Lys Asp Gln Glu
65 70 75 80

Arg Val Ala Glu Val Ser Arg Val Arg Val Glu Leu Gln Glu Gln Asn
85 90 95

Gly Arg Leu Gln Ala Glu Leu Ala Ala Gln Glu Ala Leu Arg Glu Lys
100 105 110

Ala Ala Ala Leu Glu Arg Gln Leu Lys Val Met Ala Ser Asp His Arg
115 120 125

Glu Ala Leu Leu Asp Arg Glu Ser Glu Asn Ala Ser Leu Arg Glu Lys
130 135 140

Leu Arg Leu Arg Glu Ala Glu Ile Ala Arg Ile Arg Asp Glu Glu Ala
145 150 155 160

Gln Arg Ala Ser Phe Leu Gln Asn Ala Val Leu Ala Tyr Val Gln Ala
165 170 175

Ser Pro Val Arg Thr Leu Ser Pro Pro Lys
180 185

<210> 5451
<211> 40
<212> PRT
<213> Homo sapiens

<400> 5451
Pro Met Ala Asn Pro Ile Leu Lys Leu Val Asn Ser Asp Gln Ser Tyr

```
 1               5                  10                  15

Phe Thr Tyr Pro Thr Gln Ser Gly Pro Lys Gln Ile Ala Gly Ser Ala
            20                  25                  30

Ser Lys Pro Thr Phe Leu Pro Lys
        35                  40
```

<210> 5452
<211> 69
<212> PRT
<213> Homo sapiens

<400> 5452

```
Leu Ser Arg Lys Leu Leu Leu Leu Arg Phe Lys Asn Glu Asn Arg Cys
 1               5                  10                  15

Glu Phe Ser Lys Ile Leu Lys Asn Asn Ser Val Lys Asn Ser Gly Ala
            20                  25                  30

Val Lys Glu Ser Trp Met Glu Leu Glu Val Thr Ile Leu Ser Asp Ile
        35                  40                  45

Ser Gln Lys Gln Thr Asn Ile Ala Cys Ser Gln Leu Phe Ala Gly Ser
    50                  55                  60

Lys Ser Gln Asn Asn
65
```

<210> 5453
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5453
Leu Glu Arg Gly Trp Cys Glu Ser Cys Leu Thr Thr Ala Pro Ser Pro
1 5 10 15

Pro Cys Ala Ala Glu Gly Thr Pro Ala Ala His Arg Phe Gln Glu Ala
20 25 30

Leu Ser Asp Phe Trp Leu Ala Leu Glu Gln Leu Arg Gly His Ala Ala
35 40 45

Ile Asp Tyr Thr Gln Leu Gly Leu Arg Phe Lys Leu Gln Pro Gly Arg
50 55 60

Cys Tyr Thr Met Trp Arg Arg His Ser Ala Ser Trp Gly Ser Gly Gln
65 70 75 80

Arg Arg Gln Gln Pro Lys Gly Gly His Val Gln Val Ala Gly Gly Ser
85 90 95

Leu Asn Gly Leu Asp Ser Ala Leu Asp Gln Val Gln Arg Arg Gly Ser
100 105 110

Leu Pro Xaa Gly Xaa Ser Pro Gly Arg Xaa Xaa Pro Ala Pro Xaa Trp
115 120 125

Thr

<210> 5454
<211> 84
<212> PRT
<213> Homo sapiens

<400> 5454
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Ser Gly Asp Lys Leu
1 5 10 15

```
Lys Leu Asp Gln Thr His Leu Glu Thr Val Ile Pro Ala Pro Gly Lys
            20                  25                  30

Arg Ile Leu Val Leu Asn Gly Gly Tyr Arg Gly Asn Glu Gly Thr Leu
        35                  40                  45

Glu Ser Ile Asn Glu Lys Thr Phe Ser Ala Thr Ile Val Ile Glu Thr
    50                  55                  60

Gly Pro Leu Lys Gly Arg Arg Val Glu Gly Ile Gln Tyr Glu Asp Ile
65                  70                  75                  80

Ser Lys Leu Ala
```

<210> 5455
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5455

```
Ile Phe Leu Leu Phe Ser Thr Phe Pro Gln Ile His Val Ser Glu Val
 1               5                  10                  15

Leu Ser Phe Gly His His Tyr Leu Ser Thr Leu Arg Asn Met Pro Ile
            20                  25                  30

Asp Glu Val Asn Ile Leu Gly Ile Gln Arg Ile Tyr Gly Asn Val Asp
        35                  40                  45

Lys Asp Ile Tyr Gln Asp Lys Ala Leu Glu
    50                  55
```

<210> 5456
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5456
Glu Thr Thr Lys Gln Thr Gln Lys Lys Glu His Asn Asn Arg Asp Lys
1 5 10 15

Ile Lys Phe Arg Gln Gln Xaa Thr Glu Xaa Ile Leu Lys Thr Arg Ile
20 25 30

Cys Ser Leu Arg Ile Phe Phe Ile Ile Lys Met Ile Phe Gly
35 40 45

<210> 5457
<211> 64
<212> PRT
<213> Homo sapiens

<400> 5457
Asn Pro Phe Ala Ser Gly Gln Phe Gln Thr Arg Ile Leu Ala Cys Pro
1 5 10 15

Ala Ser His Gly Met Pro Leu Pro Tyr Cys Gln Cys Asp Leu Ser Glu
20 25 30

Thr Ala Tyr Leu Ile Leu Ser Phe Pro Gly Ala Ala Ser His Leu Pro
35 40 45

Gln Asp Leu Asn Phe Lys Leu Tyr Ser Ser Pro His Ser Pro Gln Gln
50 55 60

<210> 5458
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5458
Val Leu Val Ser Leu Pro Val Pro Thr Gln Ile Ala Ser Gln Asn Phe
1 5 10 15

Asp Pro Ala Thr Val Ser Val Ala Thr Xaa His Lys Gly Ala Glu Pro
20 25 30

Ser Arg Gly Thr Ala Trp Gly Pro Val Ala Lys Arg Leu Gln Gln Glu
35 40 45

Leu Met Thr Leu Met Met Xaa Gly Asp Lys Arg Ile Ser Ala Thr Leu
50 55 60

Lys Ala Leu Ser Asn Gly His His Ser
65 70

<210> 5459
<211> 93
<212> PRT
<213> Homo sapiens

<400> 5459
Pro Lys Val Leu Gly Leu Gln Ala Glu Pro Pro Arg Pro Ala Leu Leu
1 5 10 15

Leu Leu Leu Arg Phe Glu Asn Arg Cys Leu Asn Ala Pro Asp Ser Ala
20 25 30

Leu Leu Thr Gln Arg Phe Pro His Leu Ile Tyr Ser Val Pro Ala Gln
35 40 45

Ser Pro Phe Ser Leu Met Pro Arg Ala Gly Phe Ser Leu Pro Ala Pro
50 55 60

Arg Phe Trp Ser Pro Pro Ser Val Leu Gly Pro Ser Cys Pro Leu Ser
65 70 75 80

Gly Phe Arg Pro Ser Gln His Ser Leu Ala Ser Leu Pro
85 90

<210> 5460
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5460
Gly Arg Pro Phe Gly Asn Leu Cys Leu Asn Ser Asn Arg Arg Glu Asn

```
  1               5                  10                  15

Val Gln Ala Met Gly Leu Leu Pro Ile Ser Leu Cys Phe Ala Ile Pro
             20                  25                  30

Trp Asp Lys Gly Thr Thr Ser Gly Ser Gln Ser Pro Asn Gln Tyr His
         35                  40                  45

Arg Val
     50
```

<210> 5461
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5461

```
Glu Pro Ser Ser Val His Lys Lys Pro Ile Glu Ser Arg Ser His Phe
  1               5                  10                  15

Ile Arg Trp Gln Val Ser Trp Ala Ser Leu Leu Ala Ser Pro Lys Arg
             20                  25                  30

Trp Cys Cys Gln Asp Val Leu Glu Val Ile Met Gly His Thr Glu Ala
         35                  40                  45

Leu Ser Leu His Arg Leu Lys Cys His Gln Asn Trp Pro Leu Pro Asn
     50                  55                  60

Ile Pro His
 65
```

<210> 5462
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5462

```
Glu Arg Glu Ile Leu Met Ala Pro Met Ala Ala Arg Ile Thr Ser Leu
  1               5                  10                  15

Lys Phe Arg Ala Cys Val Asn Arg Phe Cys Phe Leu Val Ser Glu Arg
             20                  25                  30

Phe Ser Tyr Ser Thr Val Leu Ile Cys Phe Ser Lys Pro Ser Asp Leu
         35                  40                  45
```

```
Cys Ile Phe Asn Arg Pro Gln Asn Asn Val Lys Tyr Met Ala
     50                  55                  60
```

<210> 5463
<211> 60
<212> PRT
<213> Homo sapiens

<400> 5463

```
Lys Tyr Gln Ile Ile Leu Trp Asn Val Lys Ala Phe Leu Leu Lys Pro
  1               5                  10                  15

Ser Ile Cys Phe Ile Val Ile Ser Val Ala Asn Met Asp Phe Ile Phe
             20                  25                  30

Lys Met Met Phe Tyr Ile Ile Phe Pro Tyr Lys Leu Phe Glu Lys Gln
         35                  40                  45

Phe Asn Asn Ser Met Ile Val Val Ala Pro Leu Asn
     50                  55                  60
```

<210> 5464
<211> 44
<212> PRT
<213> Homo sapiens

<400> 5464

```
Trp Gln Ser Asn Phe Phe Cys Leu Phe Pro Arg Glu Ser Trp Glu Tyr
  1               5                  10                  15

Pro Glu Leu Gly Ala Leu Met Ile Leu Phe Gln Leu Trp Cys Leu Lys
             20                  25                  30

Lys Asn Tyr Lys Ser Ile Leu Asn Gly Leu Ser Ser
         35                  40
```

<210> 5465
<211> 20
<212> PRT
<213> Homo sapiens

<400> 5465

```
Glu Cys Lys Leu Val Gln Pro Ser Trp Lys Thr Gly Trp Gln Phe Leu
  1               5                  10                  15
```

Lys Asp Leu Cys
20

<210> 5466
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5466
Gln Lys Ile Glu Leu Ser Phe Arg Val Ser Lys Lys Val Leu Tyr Ser
1 5 10 15

Cys Cys Thr Pro Gly Ser Trp Gln Gly Gly Asp Phe Cys Pro Arg Glu
20 25 30

Cys Ser Phe Leu Cys Ile Ile Ala Lys Gln Phe Cys Ser Cys Ile Leu
35 40 45

Lys His His Trp Met Asn Phe Phe Pro Leu
50 55

<210> 5467
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5467
Leu Leu Ile Glu Thr Cys Xaa Val Glu Lys Leu Phe Leu Ser Leu Leu
1 5 10 15

Ala Ile Gln Val Ser Ser Phe Met Lys Trp Leu Phe Met Ser Phe Ala
20 25 30

His Phe Tyr Ile Xaa Leu Phe Phe Phe Phe Pro Ala Xaa Leu Xaa Glu
35 40 45

Leu Tyr Ile Leu Ser Ile Leu Ile Ile Tyr Arg Lys Leu Phe Gly Cys
50 55 60

His Tyr Leu Leu Leu Val Asn Val Phe Cys Leu Trp Ile Ser Phe Ile
65 70 75 80

Ile Tyr Xaa

<210> 5468
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5468
Gln Ala Leu Thr Leu Cys Lys Lys Gly Gly Arg Gly His Ser Trp Ala
1 5 10 15

Gly Gly Val Gly Xaa Gln Asp Gly Cys Pro Ser Leu Pro Ile Phe Ser
20 25 30

Trp Leu Trp Asp Gln Arg Leu Val Leu Gly Ile Trp Thr Trp Arg Pro
35 40 45

Arg Ala Ile Gly Glu Gly Leu Lys Pro Val Leu Ser Ala Ala Cys Cys
50 55 60

Glu Trp Pro Ser Arg Val Met Thr Glu Leu Phe Trp Gly Arg Arg
65 70 75

<210> 5469
<211> 245
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5469
Ala Arg Gly Ala Gly Ala Ala Gly Ser Arg Cys Val Ser Gly Glu Gly
1 5 10 15

Ala Pro Arg Leu Gly Arg Arg Arg Arg Gln Arg Leu Glu Glu Arg Glu
20 25 30

Arg Arg Phe Pro Cys Pro Gly Pro Arg Glu Gly Arg Pro Thr Ala Ala
35 40 45

Met Glu Gln Leu Ser Asp Glu Glu Ile Asp His Gly Ala Glu Glu Asp
50 55 60

Ser Asp Lys Glu Asp Gln Asp Leu Asp Lys Met Phe Gly Ala Trp Leu

65 70 75 80

Gly Glu Leu Asp Lys Leu Thr Gln Ser Leu Asp Ser Asp Lys Pro Met
85 90 95

Glu Pro Val Lys Arg Ser Pro Leu Arg Gln Glu Thr Asn Met Ala Asn
100 105 110

Phe Ser Tyr Arg Phe Xaa Ile Tyr Asn Leu Asn Glu Ala Leu Asn Gln
115 120 125

Gly Glu Thr Val Asp Leu Asp Ala Leu Met Ala Asp Leu Cys Ser Ile
130 135 140

Glu Gln Glu Leu Ser Ser Ile Gly Ser Gly Asn Ser Lys Arg Gln Ile
145 150 155 160

Thr Glu Thr Lys Ala Thr Gln Lys Leu Xaa Xaa Xaa Xaa His Thr Leu
165 170 175

Xaa His Gly Thr Leu Lys Gly Leu Ser Ser Ser Ser Asn Arg Ile Ala
180 185 190

Lys Pro Ser His Ala Ser Tyr Ser Leu Asp Asp Val Thr Ala Gln Leu
195 200 205

Glu Gln Ala Ser Leu Ser Met Asp Glu Ala Ala Gln Gln Ser Val Leu
210 215 220

Glu Asp Thr Lys Pro Leu Val Thr Asn Gln His Arg Arg Thr Ala Val
225 230 235 240

Ser Arg His Ser Glu
245

<210> 5470
<211> 29
<212> PRT
<213> Homo sapiens

<400> 5470
Ala Phe Val Asp Cys Glu His Pro Ser Tyr Ile Gly Leu Tyr Arg Met
1 5 10 15

Ala Leu Ser Lys Asn Tyr Ser Cys Ile Thr Val Val Phe
20 25

<210> 5471
<211> 81
<212> PRT
<213> Homo sapiens

<400> 5471
Ala Phe Pro Leu Pro Ser Pro Gly Leu Thr Pro His Pro Ile Pro Gln
1 5 10 15

Lys Val Arg Arg Ala Gly Cys Val Asp Gly Ile Pro Glu Asn Glu Pro
20 25 30

Val Glu Ser Ile Trp Pro Trp His Val Asn Ser Ser Leu Phe Pro Ala
35 40 45

Val Ile Thr Thr Leu Phe Phe Pro Gln Gly Leu Asn Cys Thr Val Lys
50 55 60

Asn Ser Lys Ser Ser Phe Ser Val Leu Leu Leu Val Ala Phe Leu Ile
65 70 75 80

Lys

<210> 5472
<211> 53
<212> PRT
<213> Homo sapiens

<400> 5472
Ser Cys Ser Phe Gly Val Cys Glu Gln Thr Gln Asp Ile Ile Ile Lys
1 5 10 15

His His Pro Ser Ile Lys Gly Leu Phe Tyr Asn Met Cys Cys Glu Ile
20 25 30

Asn Leu Ser Gly Lys Val Trp Cys Asn Glu Leu Phe His Ser Met Val
35 40 45

Ile Asp Ala Val Lys
50

<210> 5473
<211> 105
<212> PRT
<213> Homo sapiens

<400> 5473
Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser
1 5 10 15

Val Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Cys Phe Phe Phe
20 25 30

Phe Phe Phe Val Val His Asn His Leu Phe Tyr Leu Lys Thr Cys Leu
35 40 45

His Cys Ile Glu His Gln His Arg Cys Asp Gln Glu Thr His Ser Pro
50 55 60

Val Pro Ala Ala Leu Gly Pro Val Tyr Asp Leu Gly Trp Thr Val Ile
65 70 75 80

Phe His Ser Glu Gly Gly Lys Asp Arg Lys Glu Lys Met Ala Ile Ile
85 90 95

Pro Thr Pro Val Gln Glu Ser Glu Gln
100 105

<210> 5474
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5474
Gly Phe Ile Ile His Cys Gln Met Leu Val Pro Ile Lys Gln Cys Cys

```
  1               5                  10                  15

Leu Pro Thr Pro Thr Phe Cys Val Xaa Gly Lys Phe Trp Lys Ser Arg
             20                  25                  30

Gly Xaa His Ala Lys Arg Leu Ser Thr Gly Leu Phe Leu Val Ser Ala
         35                  40                  45

Leu Xaa Xaa Leu Cys Glu Glu Val Ala Ile Tyr Gly Phe Trp Pro Phe
     50                  55                  60

Ser Val Asn Met His Glu Gln Pro Ile Ser His His Tyr Tyr Asp Asn
 65                  70                  75                  80

Val Leu Pro Phe Ser Gly Phe His Ala Met Pro Glu Glu Phe Leu Gln
                 85                  90                  95

Leu Trp Tyr Leu His Lys Ile Gly Ala Leu Arg Met Gln Leu Asp Pro
            100                 105                 110

Cys Glu Asp Thr Ser Leu Gln Pro Thr Ser
        115                 120
```

<210> 5475
<211> 237
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (237)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5475

```
Tyr Gln Ser Ile Ala Leu Tyr Phe Glu Gly Glu Lys Arg Tyr Leu Gln
  1               5                  10                  15

Ala Gly Lys Phe Phe Leu Leu Cys Gly Gln Tyr Ser Arg Ala Leu Lys
             20                  25                  30

His Phe Leu Lys Cys Pro Ser Ser Glu Asp Asn Val Ala Ile Glu Met
         35                  40                  45

Ala Ile Glu Thr Val Gly Gln Ala Lys Asp Glu Leu Leu Thr Asn Gln
```

```
     50                  55                  60

Leu Ile Asp His Leu Leu Gly Glu Asn Asp Gly Met Pro Lys Asp Ala
 65                  70                  75                  80

Lys Tyr Leu Phe Arg Leu Tyr Met Ala Leu Lys Gln Tyr Arg Glu Ala
                 85                  90                  95

Ala Gln Thr Ala Ile Ile Ile Ala Arg Glu Glu Gln Xaa Ala Gly Asn
            100                 105                 110

Tyr Arg Asn Ala His Asp Val Leu Phe Ser Met Tyr Ala Glu Leu Lys
        115                 120                 125

Ser Gln Lys Ile Lys Ile Pro Ser Glu Met Ala Thr Asn Leu Met Ile
    130                 135                 140

Leu His Ser Tyr Ile Leu Val Lys Ile His Val Lys Asn Gly Asp His
145                 150                 155                 160

Met Lys Gly Ala Arg Met Leu Ile Arg Val Ala Asn Asn Ile Ser Lys
                165                 170                 175

Phe Pro Ser His Ile Val Pro Ile Leu Thr Ser Thr Val Ile Glu Cys
            180                 185                 190

His Arg Ala Gly Leu Lys Asn Ser Ala Phe Ser Phe Ala Ala Met Leu
        195                 200                 205

Met Arg Pro Glu Tyr Arg Ser Lys Ile Asp Ala Lys Tyr Lys Lys Lys
    210                 215                 220

Ile Glu Gly Met Val Gln Glu Thr Arg Tyr Ile Leu Xaa
225                 230                 235



<210> 5476
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5476
Gly Gly Ala Gly Ala Arg Gly Gly Gly Ala Leu Trp Val Thr Glu Gly
  1               5                  10                  15
```

```
Val Lys Xaa Pro Gly Pro Val Ser Gly Gln Cys Arg Lys Ser Gln Pro
            20                  25                  30

His Ala Cys Gly Glu Ile Pro Cys Arg Ala Pro Pro Thr Met Asp Thr
        35                  40                  45

Ser Gly Pro Leu Arg Ser Ser Lys Ala Val Ser Ser Phe Pro Leu Gln
    50                  55                  60

Gln Arg Gly Val Pro Ser Ser Val Lys Gln Pro Phe Leu Phe Leu Glu
65                  70                  75                  80

Ser Tyr Lys Trp Arg Pro Lys Ser Val Pro Met Leu Arg Gln Gly Pro
                85                  90                  95

Gly Cys Ser Phe Leu Ser Gly Asn Arg Leu Glu Leu Phe Leu Trp Asp
            100                 105                 110

Met Pro Pro Arg Pro Ala Leu Lys Gly Cys Ser Ser Leu Thr Thr Trp
        115                 120                 125

Asn Gln Thr Pro Pro Ser Phe Val Tyr Lys Gly Asn Lys Glu
    130                 135                 140
```

<210> 5477
<211> 41
<212> PRT
<213> Homo sapiens

<400> 5477

```
Gly Arg Lys Leu Pro Glu Glu Glu Gly Gly Lys Glu Ile Lys Asn Thr
  1               5                  10                  15

Leu Lys Val Cys Gln Lys Lys Glu Leu Tyr Phe Leu Lys His Ser Arg
            20                  25                  30

Lys Met Met Ser Phe Gln Leu Leu Ile
        35                  40
```

<210> 5478
<211> 64
<212> PRT
<213> Homo sapiens

<400> 5478

```
Lys Ser Ile Val Val Leu Val Leu Leu Ser Trp Ile Ile Val Gln Lys
  1               5                  10                  15
```

```
Glu Val Gln Pro Pro Asp Asn His Ile Phe Thr Val Met Asn Gly Lys
            20                  25                  30

Thr Lys Cys Arg Ala Gln Leu Thr Gln Arg Lys Lys Gly Ser Lys Asp
        35                  40                  45

Lys Leu Trp His Asn Leu Ala Ala Lys Phe Leu Pro Ser Thr Asp Phe
    50                  55                  60
```

<210> 5479
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5479

```
Cys Ile Ile Leu Arg Gly Phe Phe Arg Ala Val Leu Thr Glu Leu Ser
  1               5                  10                  15

Ile Asn Leu His Ser Ser Gly Arg Leu Leu Lys Leu Ala Gly His Asn
            20                  25                  30

Glu Ile Gly Lys Ser Arg Val Leu Lys Ser Ile Ala Trp Pro Ser Ala
        35                  40                  45
```

<210> 5480
<211> 68
<212> PRT
<213> Homo sapiens

<400> 5480

```
Lys Leu Leu Cys Pro His Leu Arg Glu Glu Gly Ser Ser Asn Asn Thr
  1               5                  10                  15

Thr Met Cys Lys Ala Gly Ser Glu Ile Leu Leu Ser Pro Leu Pro Ser
            20                  25                  30

Cys Asn Pro Ser Leu Pro His Leu Ser Cys Met Cys Ile Thr Met Leu
        35                  40                  45

Phe Cys Phe Leu Met Lys Met Arg Leu Cys Ile Leu Phe Asp Asn Leu
```

50 55 60

Phe Gln Ile Lys
65

<210> 5481
<211> 101
<212> PRT
<213> Homo sapiens

<400> 5481
Pro Leu Ser Thr Pro His Pro Leu Arg Arg Gly Pro Arg Ser Tyr Pro
1 5 10 15

Thr Val His Leu Pro Arg Gly Cys Ser Glu Leu Ala Met Ala Ala Thr
20 25 30

Ala Ala Thr Ala Ala Asp Pro Arg Ser Gly Ser Leu Arg Arg Gly Val
35 40 45

Ala Ala Leu Pro Arg Pro Pro Arg Gln Pro Glu Gln Leu Gln Ser Thr
50 55 60

Gly Leu Gly Ser Glu Thr Phe Lys Val Lys Gln Ala Glu Trp Gly Asp
65 70 75 80

Arg Thr Ile Ser Pro Pro Pro Gly Ala Pro Gly Leu Ser Leu Gly Gly
85 90 95

Pro Pro Leu Ala Pro
100

<210> 5482
<211> 87
<212> PRT
<213> Homo sapiens

<400> 5482
Arg Ile His Glu Lys Tyr Glu Ile Trp Phe His Pro Val Arg His Phe
1 5 10 15

Asn Arg Glu Asp Gln Asn Val Thr Trp Gln Leu Gly Asn Asn Leu Thr
20 25 30

Ser Leu Ala Val Gly Leu Asn Phe Leu Ile Ile Asp Pro Gly Ile Phe
35 40 45

```
Gln Pro Glu Thr Gln Leu Ser Gly Arg Gln Thr Asn Cys Thr Thr Pro
     50                  55                  60

Thr Ile Ser Trp Thr Leu Lys Phe Cys Leu Leu Gln Ser Ile Val Ser
 65                  70                  75                  80

Phe Lys Ala Pro Val Leu Ala
                 85
```

<210> 5483
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5483

```
Thr Pro Ile Met Xaa Asp Glu Phe Val Met Arg Asp Asn Leu Glu Val
  1               5                  10                  15

Val Phe Thr His Tyr Ala Thr Ile Lys Gly Ser Thr Val Glu Arg Ile
             20                  25                  30

Leu Thr His Ser Val Thr Asn Gly Thr His Arg Gln His Glu Phe Ala
         35                  40                  45

Pro Tyr Met Thr Glu Val Ile Gln Gly Phe Leu
     50                  55
```

<210> 5484
<211> 240
<212> PRT
<213> Homo sapiens

<400> 5484

```
Val Thr Thr Lys Phe Val Arg Thr Ser Thr Asn Lys Val Lys Cys Pro
  1               5                  10                  15

Val Phe Val Val Arg His Ser Met Glu Asn Leu Phe Glu Lys Asn Lys
             20                  25                  30

Ile Arg Ala Ser Ile Ser Tyr Lys Trp Thr Pro Glu Gly Arg Arg Leu
         35                  40                  45
```

```
Val Thr Gly Ala Ser Ser Gly Glu Phe Thr Leu Trp Asn Gly Leu Thr
     50                  55                  60

Phe Asn Phe Glu Thr Ile Leu Gln Ala His Asp Ser Pro Val Arg Ala
 65                  70                  75                  80

Met Thr Trp Ser His Asn Asp Met Trp Met Leu Thr Ala Asp His Gly
                 85                  90                  95

Gly Tyr Val Lys Tyr Trp Gln Ser Asn Met Asn Asn Val Lys Met Phe
            100                 105                 110

Gln Ala His Lys Glu Ala Ile Arg Glu Ala Arg Phe Ile His Asn Ile
        115                 120                 125

Pro Phe Ser Val Val Pro Ile Val Met Val Lys Leu Phe Ser Lys Cys
    130                 135                 140

Ile Leu Gly Ala Glu Met His Gly Leu Cys Gln Phe Leu Gly Asn Phe
145                 150                 155                 160

Leu His Pro Ile Asn Thr Ile Phe Phe Phe Val Phe Thr His Ser Pro
                165                 170                 175

Phe Cys Trp His Leu Ser Glu Val Val Leu Ser Arg Tyr Gln Pro Leu
            180                 185                 190

Gln Tyr Val Arg Asp Val Leu Ser Ala Ala Phe Cys Thr Gly Phe Leu
        195                 200                 205

Phe Ser Phe Met Ile Asn Asn Val Tyr Thr Leu Phe Leu Phe Ile Ile
    210                 215                 220

Tyr Cys Val Arg Gln Glu Tyr Phe Ile Pro Asn Lys Glu Phe Ser Leu
225                 230                 235                 240
```

<210> 5485
<211> 47
<212> PRT
<213> Homo sapiens

<400> 5485

```
Asn Glu Ala Phe Ile Tyr Val Phe Arg Cys His Cys Ser Leu Ser Glu
  1               5                  10                  15

Leu Ala Val His Ile Ser Leu Pro Leu Val Leu Ser Thr Asp Phe Phe
```

20 25 30

Leu Lys Lys Arg Gly Thr Val Tyr His Ser Ser Thr Val Leu Leu
35 40 45

<210> 5486
<211> 72
<212> PRT
<213> Homo sapiens

<400> 5486
Tyr Glu Ala Lys Thr Lys Ser Trp Lys Ser Glu Gln Val Gln Trp Phe
1 5 10 15

Gly Arg Gly Asn Glu Glu Gln Arg Arg Cys Gln Pro Leu Leu Gln Thr
20 25 30

Leu Trp Tyr His Trp Phe Gly Arg Lys Asn Asn His His Leu Arg Gly
35 40 45

Pro Val Gly Lys Pro Cys Pro His Gly Lys Ala Ile Phe Phe Arg Leu
50 55 60

His Phe Ser Trp Tyr Tyr Val Tyr
65 70

<210> 5487
<211> 75
<212> PRT
<213> Homo sapiens

<400> 5487
Leu Thr Cys Tyr Val Thr Val Ile Tyr Leu Ser Ile Ser Asn Pro Lys
1 5 10 15

Ala Cys Gln Lys Ala Phe Phe Arg Glu Asn His Phe Thr Phe Val Val
20 25 30

Lys Leu Leu Ile Ala Thr Leu Lys Asn Ile His Val Cys Ile His Arg
35 40 45

Asn Ile Phe Ser Gln Tyr Leu Tyr Asp Ser Leu Thr Val Ile Val Leu
50 55 60

Ser Glu Leu Leu Cys Ala Ser Asp Lys Asn Lys
65 70 75

<210> 5488
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5488
Gly Pro Arg Arg Thr Leu Ala Ala Leu Pro Leu Ser Arg Val Ser Ala
1 5 10 15

Gly Ser Gly Ser Ala Ser Pro Gly Gln Leu Arg Glu Ser Leu Ala Arg
20 25 30

Ile Pro Ala Ser Thr Leu Phe Leu Ala Ala Lys Val Thr Val Pro Phe
35 40 45

Ala Pro Ala Leu Ser Asp Pro Pro Arg Ile Pro Arg His Arg Glu Thr
50 55 60

Arg Lys Gly Xaa Gly Ser Gly Gly Gly Pro Gly Arg Ile Ala Leu Gln
65 70 75 80

Ala Ala Leu Arg Gly Pro Ala Pro Ala Thr Ala Leu Thr Ser Glu Arg
85 90 95

Arg Asn Trp Gly Glu Xaa Phe Lys Ser Leu Arg Xaa Arg Cys
100 105 110

<210> 5489
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5489
Ser Gly Arg Gly Ser Pro Gln Trp Thr Arg Leu Pro His Pro Ala Glu
1 5 10 15

Val Gly Gly Gly His Glu Glu Met Gly Cys Arg Leu Leu Ser Glu Leu
20 25 30

Pro Ser Thr Asn Gly Val Gly Val Xaa Asp Leu Pro Arg His Xaa Phe
35 40 45

Phe Thr Phe Gly Lys Met Glu Gly Asp Gly Gly Gly Ile Pro Cys Ser
50 55 60

Leu Cys Cys Ala Asp Thr Leu Glu Lys Xaa Leu Pro Ser Val Glu Gln
65 70 75 80

Asn Pro Leu Trp Arg Asn Ala Ala Val Leu Asp Leu Glu Ala Glu Gly
85 90 95

Val Ser Ile Leu Gly Ile Cys Leu Pro Leu Pro Ile Trp Met Pro His
100 105 110

Leu Ala Val Ser Leu Met Val Ile Leu Phe
115 120

<210> 5490
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5490
Arg Leu Phe Ser Leu Xaa Gly Glu Cys His Lys Leu Leu Phe Cys Ile
1 5 10 15

Ser Thr Ala Cys Gln Ala Leu Ser Ala Ser Ser Asn Leu Ala Leu Thr
20 25 30

Ala Thr Gly Ser Arg Cys Pro Ile Phe Gln Ser Lys Asp Arg Gly Val
35 40 45

Lys Phe Lys Tyr Arg Phe Ser Asp Ile Asn Leu Cys Asp Asp Leu Ile
50 55 60

Glu Ala Gly Phe Ser Ser Ile Thr Val Leu Val Pro Ser Leu Leu Tyr
65 70 75 80

Gly Asn Glu Asn Lys Glu Thr Tyr Phe Leu Ala Cys Leu Lys Lys Lys
85 90 95

Lys

<210> 5491
<211> 294
<212> PRT
<213> Homo sapiens

<400> 5491
Thr Tyr Thr Ile His Ala Asp Gly Thr Gly Ser Asn Met Asn Ile Asn
1 5 10 15

Asp Gly Gly Arg Arg Arg Phe Glu Asp Asn Glu His Thr Leu Arg Ile
20 25 30

Tyr Pro Gly Ala Ile Ser Glu Gly Thr Ile Tyr Cys Pro Ile Pro Ala
35 40 45

Arg Lys Asn Ser Thr Ala Ala Glu Val Ile Glu Ser Leu Ile Asn Lys
50 55 60

Leu His Leu Asp Lys Thr Lys Cys Tyr Val Leu Ala Glu Val Lys Glu
65 70 75 80

Phe Gly Gly Glu Glu Trp Ile Leu Asn Pro Thr Asp Cys Pro Val Gln
85 90 95

Arg Met Met Leu Trp Pro Arg Met Ala Leu Glu Asn Arg Leu Ser Gly
100 105 110

```
Glu Asp Tyr Arg Phe Leu Leu Arg Glu Lys Asn Leu Asp Gly Ser Ile
        115                 120                 125

His Tyr Gly Ser Leu Gln Ser Trp Leu Arg Val Thr Glu Glu Arg Arg
    130                 135                 140

Arg Met Met Glu Arg Gly Phe Leu Pro Gln Pro Gln Gln Lys Asp Phe
145                 150                 155                 160

Asp Asp Leu Cys Ser Leu Pro Asp Leu Asn Glu Lys Thr Leu Leu Glu
                165                 170                 175

Asn Leu Arg Asn Arg Phe Lys His Glu Lys Ile Tyr Thr Tyr Val Gly
            180                 185                 190

Ser Ile Leu Ile Val Ile Asn Pro Phe Lys Phe Leu Pro Ile Tyr Asn
        195                 200                 205

Pro Lys Tyr Val Lys Met Tyr Asp Asn His Gln Leu Gly Lys Leu Glu
    210                 215                 220

Pro His Ile Tyr Ala Val Ala Asp Val Ala Tyr His Ala Met Leu Gln
225                 230                 235                 240

Arg Lys Lys Asn Gln Cys Ile Val Ile Ser Gly Glu Ser Gly Ser Gly
                245                 250                 255

Lys Thr Gln Ser Thr Asn Phe Leu Ile His His Leu Thr Ala Leu Ser
            260                 265                 270

Gln Lys Gly Phe Ala Ser Gly Val Glu Gln Ile Ile Leu Gly Ala Gly
        275                 280                 285

Pro Val Leu Glu Ala Val
    290
```

<210> 5492
<211> 85
<212> PRT
<213> Homo sapiens

<400> 5492

```
Pro Tyr Leu Arg Arg Arg Asp Thr Gln Asp Lys Leu Gln Val Val Ser
  1               5                  10                  15

Arg Phe Thr Phe Tyr Phe Glu Asp Pro Leu Leu Pro Gln Val Pro Asp
             20                  25                  30
```

Leu Glu Asn Glu Pro Pro Leu Ser Gly Leu Ala Ser Pro Gln Pro Arg
35 40 45

His Arg Leu Ala Gln Gly Ser Ser Ser Trp Leu Ser Trp Asn Leu His
50 55 60

Phe Leu Thr Thr Arg Lys Arg Ser Pro Glu Leu Thr Lys Asn Asn Ile
65 70 75 80

Leu Leu Thr Trp Glu
85

<210> 5493
<211> 274
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (245)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (271)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5493
His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
1 5 10 15

Gly Ser Thr His Ala Ser Gly Pro Thr Ser Pro Pro Ala Arg Met Ala
20 25 30

Pro Pro Gly Pro Ala Ser Ala Leu Ser Thr Ser Ala Glu Pro Leu Ser
35 40 45

Arg Ser Xaa Phe Arg Lys Phe Leu Leu Met Leu Cys Ser Leu Leu Thr
50 55 60

Ser Leu Tyr Val Phe Tyr Cys Leu Ala Glu Arg Cys Gln Thr Leu Ser
65 70 75 80

Gly Pro Val Val Gly Leu Ser Gly Gly Gly Glu Glu Ala Gly Ala Pro
85 90 95

Gly Gly Gly Val Leu Ala Gly Pro Arg Glu Leu Ala Val Trp Pro Ala
100 105 110

Ala Ala Gln Arg Lys Arg Leu Leu Gln Leu Pro Gln Trp Arg Xaa Arg
115 120 125

Arg Xaa Pro Ala Pro Arg Xaa Asp Gly Glu Glu Ala Ala Trp Glu Glu
130 135 140

Glu Ser Pro Gly Leu Ser Gly Val Arg Ala Ala Pro Gly Pro Glu Ala
145 150 155 160

Pro Trp Pro Arg Pro Arg Arg Gly Pro Trp Arg Cys Ser Trp Thr Lys
165 170 175

Ala Ala Ser Ser Cys Arg Ser Ile Ile Ile Gly Xaa Lys Lys Gly Gly
180 185 190

Thr Arg Ala Leu Leu Glu Phe Leu Arg Val His Pro Asp Val Arg Ala
195 200 205

Val Gly Ala Glu Pro His Phe Phe Asp Arg Ser Tyr Asp Lys Gly Leu
210 215 220

```
Ala Trp Tyr Arg Asp Leu Xaa Pro Arg Thr Leu Glu Gly Gln Ile Thr
225                 230                 235                 240

Met Glu Lys Lys Xaa Ser Tyr Ser Ser Ser Gly Lys Pro Pro Arg Ala
                245                 250                 255

Ser Trp Ala Cys Ser Lys Asp Asn Lys Leu Ile Arg Trp Leu Xaa Gly
            260                 265                 270

Asn Arg
```

<210> 5494
<211> 66
<212> PRT
<213> Homo sapiens

<400> 5494

```
Gly Val Gly His Ser Glu Leu Thr Ser Met Phe Asn Thr Ile Thr Arg
  1               5                  10                  15

Asp Thr Glu Thr Ala Asn Gln Asp Lys Lys Leu Thr Thr Ser Arg Cys
             20                  25                  30

Arg Gln Leu Phe Pro Arg Cys Gln Asn Lys Thr Ser Tyr His Asp Glu
         35                  40                  45

Ala Pro Thr Pro Leu Asn Leu Pro Ser Ser Cys Leu Pro Leu Ser Leu
     50                  55                  60

Ala Gly
 65
```

<210> 5495
<211> 117
<212> PRT
<213> Homo sapiens

<400> 5495

```
Leu Asp Arg Ile Phe Ser Gly Gly Ser Leu Val Asp Phe Glu Gly Lys
  1               5                  10                  15

Thr Phe Trp Val Tyr His Val Leu Ile Leu Glu Thr Gly Ser Asp Glu
             20                  25                  30

Ser Ser Pro Val Val Pro Leu Ser Asn Ser Ile Lys Val Gly Ile Ser
         35                  40                  45
```

```
Lys Glu His Leu Ile Gln Gly Ala Gly Ala Asp Phe Ile Asp Ser Arg
     50                  55                  60

Glu Thr Cys Phe Ser Ala Tyr Ser Ser Leu Pro Ser Gly Ala Ser Leu
 65                  70                  75                  80

Leu Thr Ile Thr Ala Ser Leu Arg Cys Arg Trp Val Phe Leu Lys Gln
                 85                  90                  95

Glu Thr Val Ser Pro Leu Leu Pro Gln Leu Leu Gly Val Gly Ile Ser
            100                 105                 110

Asp Thr Gly Asp Gly
        115
```

<210> 5496
<211> 171
<212> PRT
<213> Homo sapiens

<400> 5496

```
Ile Thr Met Asp Trp Gln Ser Ile Lys Ile Gln Glu Leu Met Ser Asp
  1               5                  10                  15

Asp Gln Arg Glu Ala Gly Arg Ile Pro Arg Thr Ile Glu Cys Glu Leu
             20                  25                  30

Val His Asp Leu Val Asp Ser Cys Val Pro Gly Asp Thr Val Thr Ile
         35                  40                  45

Thr Gly Ile Val Lys Val Ser Asn Ala Glu Glu Gly Ser Arg Asn Lys
     50                  55                  60

Asn Asp Lys Cys Met Phe Leu Leu Tyr Ile Glu Ala Asn Ser Ile Ser
 65                  70                  75                  80

Asn Ser Lys Gly Gln Lys Thr Lys Ser Ser Glu Asp Gly Cys Lys His
                 85                  90                  95

Gly Met Leu Met Glu Phe Ser Leu Lys Asp Leu Tyr Ala Ile Gln Glu
            100                 105                 110

Ile Gln Ala Glu Glu Asn Leu Phe Lys Leu Ile Val Asn Ser Leu Cys
        115                 120                 125

Pro Val Ile Phe Gly His Glu Leu Val Lys Ala Gly Leu Ala Leu Ala
    130                 135                 140
```

```
Leu Phe Gly Gly Ser Gln Lys Tyr Ala Asp Asp Lys Asn Arg Ile Pro
145                 150                 155                 160

Ile Arg Gly Asp Pro His Ile Leu Val Gly Phe
                165                 170
```

<210> 5497
<211> 24
<212> PRT
<213> Homo sapiens

<400> 5497
```
Ser Val Lys Cys Arg Leu Ser Ser Phe Ile Met Asn Val Ile Val Arg
  1               5                  10                  15

Asn Thr Leu Thr Phe Ser Asn Phe
             20
```

<210> 5498
<211> 74
<212> PRT
<213> Homo sapiens

<400> 5498
```
Gly Phe Ser Gln Arg Arg Val Cys Ser Gly Arg Cys Cys Gly Gln Gly
  1               5                  10                  15

Ser Arg Gln Arg Pro Leu Ser Ser Arg Leu Ala Pro Ala Leu Arg Gly
             20                  25                  30

His Gly Gly Ala Glu Ala Thr Arg Ala Gly Pro Glu Pro Gly Gly Pro
         35                  40                  45

Trp Leu Arg Phe Ser Cys Thr Glu Lys Leu Asn Pro Ala Arg Ser Asp
     50                  55                  60

Val His Phe Met Val Pro Thr Pro Leu Gly
 65                  70
```

<210> 5499
<211> 153
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5499

```
Thr Cys Tyr Ala Thr Pro Cys Leu Val Trp Met Gly Arg Trp Pro Pro
 1               5                  10                  15

Ala Val Thr Leu Thr Cys Arg Pro Thr Ala Thr Val Pro Trp Ser Pro
            20                  25                  30

Gly Thr Thr Ser Ala Glu Thr Thr Ala Leu Ala Arg Ser Leu Cys Ser
        35                  40                  45

Ala Gly Thr Gln Pro Ala Pro Ser Thr Thr Ser Leu Pro Ser Trp Arg
    50                  55                  60

Ser Ala Ala Pro Leu Ala Trp Pro Leu Gln Leu Ser Gly Gln Trp Trp
65                  70                  75                  80

Ser Ala Gly Ala Cys Phe Leu Asp Leu Pro Ser Leu Ala Leu Cys Trp
                85                  90                  95

Pro Gly Asp Ser Gly Asp Ala Ser Gly Gln Lys Pro Gly Ala Glu Gln
            100                 105                 110

Thr Leu Gly Cys Ser Gly Trp Ala Gln Ala Xaa Phe Arg Leu Ala Ala
        115                 120                 125

Thr Val Arg Xaa Pro Xaa Arg Pro Gln Ala Pro Ser Xaa Arg Ala Phe
    130                 135                 140

Leu Pro Leu His Phe Pro Thr Ile Glu
145                 150
```

<210> 5500
<211> 142
<212> PRT
<213> Homo sapiens

<400> 5500
Trp Thr Trp Ser Thr Pro Ala Ser Ala Arg Ser Ser Gly Thr Thr Thr
1 5 10 15

Trp Pro Pro Ala Pro Ala Ala Ala Leu His Leu Arg Leu Arg Gly Val
20 25 30

Gln Arg Arg Arg Ile Leu Thr Met Glu Pro Val Leu Gly Gly Thr Pro
35 40 45

Tyr Leu Asp Lys Phe Val Val Ser Ser Ser Arg Gln Gly Gln Gly Ser
50 55 60

Gly Gln Met Leu Trp Glu Cys Leu Arg Arg Asp Leu Gln Thr Leu Phe
65 70 75 80

Trp Arg Ser Arg Val Thr Asn Pro Ile Asn Pro Trp Tyr Phe Lys His
85 90 95

Ser Asp Gly Ser Phe Ser Asn Lys Gln Trp Ile Phe Phe Trp Phe Gly
100 105 110

Leu Ala Asp Ile Arg Asp Ser Tyr Glu Leu Val Asn His Ala Lys Gly
115 120 125

Leu Pro Asp Ser Phe His Lys Pro Ala Ser Asp Pro Gly Ser
130 135 140

<210> 5501
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5501
Gln Arg Glu Asn Arg Pro Cys Leu Lys Glu Arg Phe Leu Val Tyr Ala
1 5 10 15

Ser Gly Leu Trp Ala Gly Xaa Ala Thr Ile Pro Tyr Xaa Arg Gln Ser
20 25 30

Ser Ala Pro Ala Ala Lys Leu Ala Cys Phe Thr Gly Lys Leu Leu Glu
35 40 45

Glu Trp Leu Leu Met Arg Phe Gln Asn Glu Val Leu Ala Asn Thr Ala
50 55 60

His Gly His Pro Gly Phe Ser Gln Trp Leu Pro Phe Leu Leu Ala Ser
65 70 75 80

Leu Asn Arg Gly Glu Ser Leu Thr Ser Leu Leu Leu Ser Lys Pro Phe
85 90 95

Thr Leu Asn Gly
100

<210> 5502
<211> 165
<212> PRT
<213> Homo sapiens

<400> 5502
Lys Trp Asp Glu Pro Trp Tyr Asn Gln Lys Thr Glu His Gln Arg Asn
1 5 10 15

Ser Ser Lys Ile Leu Arg Phe Ile Ser Asp Phe Leu Ala Phe Leu Val
20 25 30

Leu Tyr Asn Phe Ile Ile Pro Ile Ser Leu Tyr Val Thr Val Glu Met
35 40 45

Gln Lys Phe Leu Gly Ser Phe Phe Ile Gly Trp Asp Leu Asp Leu Tyr
50 55 60

His Glu Glu Ser Asp Gln Lys Ala Gln Val Asn Thr Ser Asp Leu Asn
65 70 75 80

Glu Glu Leu Gly Gln Val Glu Tyr Val Phe Thr Asp Lys Thr Gly Thr
85 90 95

Leu Thr Glu Asn Glu Met Gln Phe Arg Glu Cys Ser Ile Asn Gly Met
100 105 110

```
Lys Tyr Gln Glu Ile Asn Gly Arg Leu Val Pro Glu Asp Gln His Gln
        115                 120                 125

Thr Leu Gln Lys Glu Thr Tyr Leu Ile Leu Val Val Tyr Pro Ile Leu
    130                 135                 140

Thr Thr Tyr Pro Ile Leu Gln Pro Val Pro Leu Ser Glu Pro Val Leu
145                 150                 155                 160

Lys Met Lys Leu Asn
                165
```

<210> 5503
<211> 54
<212> PRT
<213> Homo sapiens

<400> 5503

```
Arg Leu Pro Ser Glu Val Ser Asp His Ser Leu Leu Leu Lys Gln Leu
  1               5                  10                  15

Leu Leu Phe Leu Tyr Ser Ile Glu His Pro Gly Ile Asp Ile Ile Leu
             20                  25                  30

Ser Ile Ser Ile Ser Pro Leu Leu Val Tyr Leu Ile Ile Asn Pro Val
         35                  40                  45

Ser Arg Ala Val Phe Ile
     50
```

<210> 5504
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5504
His Glu Gly Lys Cys Phe Cys Arg Lys Ser Thr Leu Thr Thr His Leu
1 5 10 15

Arg Thr His Thr Gly Glu Lys Pro Tyr Glu Cys Asn Glu Cys Gly Lys
20 25 30

Phe Phe Ser Arg Leu Ser Tyr Leu Thr Val His Tyr Arg Thr His Ser
35 40 45

Gly Glu Lys Pro Tyr Glu Cys Asn Xaa Cys Gly Lys Thr Phe Tyr Leu
50 55 60

Asn Ser Ala Leu Met Arg His Gln Arg Val His Thr Gly Glu Lys Pro
65 70 75 80

Tyr Glu Cys Asn Glu Cys Gly Lys Leu Phe Ser Gln Leu Ser Tyr Leu
85 90 95

Thr Ile His His Arg Thr His Ser Gly Val Lys Pro Tyr Glu Cys Ser
100 105 110

Glu Cys Gly Lys Thr Phe Tyr Gln Asn Ser Ala Leu Cys Arg His Arg
115 120 125

Arg Ile His Lys Gly Glu Lys Pro Tyr Glu Cys Tyr Ile Cys Gly Lys
130 135 140

Phe Phe Ser Gln Met Ser Tyr Leu Thr Ile His His Arg Ile His Ser
145 150 155 160

Gly Glu Lys Pro Tyr Glu Cys Ser Glu Cys Gly Lys Thr Phe Xaa Gln
165 170 175

Asn Xaa Ala Leu Asn Arg His Gln Arg Thr His Thr Gly Glu Lys Ala
180 185 190

Tyr Glu Cys Tyr Glu Cys Gly Lys Cys Phe Ser Gln Met Ser Tyr Leu
195 200 205

Thr Ile His His Arg Ile His Ser Gly Glu Asn Leu
210 215 220

<210> 5505
<211> 111
<212> PRT

<213> Homo sapiens

<400> 5505

```
Lys Arg Glu Phe Ala Gly Glu Lys Arg Leu Asp Leu Val Glu Asp Cys
  1               5                  10                  15

Leu Gly Trp Gly Ser Thr Thr Trp Arg Phe Gln Ile His Leu Ala Cys
             20                  25                  30

Lys Gln Gln Ser Tyr Pro Tyr Leu Pro His Val Asn Val Ile Ala Arg
         35                  40                  45

Val Thr Leu Asp Lys Leu Gln Thr Asp Gly Pro Ser Ser Ser Pro Gly
     50                  55                  60

Ala Pro Trp Met Ala Ala Leu Leu Gln Ser Val Ser Cys Phe Trp Asn
 65                  70                  75                  80

Ser Leu Leu Gly Asn Phe Lys Glu Glu Lys Lys Asn Leu Asn Cys Val
                 85                  90                  95

Glu Leu Leu Tyr Leu Leu Leu Phe Phe Phe Glu Lys Ile Asn Leu
            100                 105                 110
```

<210> 5506
<211> 157
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5506

```
Thr Lys Ser Ser Ala Leu Gly Pro Arg Ala Pro Ser Leu Arg Arg His
  1               5                  10                  15

Val Leu Ile His Asn Thr Leu Gln Gln Leu Gln Ala Ala Leu Arg Leu
             20                  25                  30

Ala Pro Ala Pro Ala Leu Pro Pro Glu Pro Leu Phe Leu Gly Glu Glu
         35                  40                  45
```

```
Asp Phe Ser Leu Ser Ala Xaa Ile Gly Ser Ile Leu Arg Glu Leu Asp
     50                  55                  60

Thr Ser Met Asp Gly Thr Glu Pro Pro Gln Asn Pro Val Thr Pro Leu
 65                  70                  75                  80

Gly Leu Gln Asn Glu Val Pro Pro Gln Pro Asp Pro Val Phe Leu Glu
                 85                  90                  95

Ala Leu Ser Ser Arg Tyr Leu Gly Asp Ser Gly Leu Asp Asp Phe Phe
            100                 105                 110

Leu Asp Ile Asp Thr Ser Ala Val Glu Lys Glu Pro Ala Arg Ala Pro
        115                 120                 125

Pro Glu Pro Xaa His Asn Leu Phe Cys Ala Pro Gly Ser Trp Glu Trp
    130                 135                 140

Asn Glu Leu Asp His Ile Met Glu Ile Ile Leu Gly Ser
145                 150                 155
```

<210> 5507
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5507

```
Lys Met Met Arg Val His Gln Asp Ser Thr Xaa Glu Lys Leu Pro Phe
  1               5                  10                  15
```

Phe Pro Leu Xaa Ala Asp Trp Lys Ala Ser Arg Ala Xaa Leu Cys Ala
20 25 30

Leu Phe Arg Xaa Thr His Lys Asp Leu Gly Lys Cys Lys
35 40 45

<210> 5508
<211> 158
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5508
Asn Phe Ile Phe Ile Leu Lys Leu His Leu Leu Lys Ser Leu Lys Ile
1 5 10 15

Ile Ser Val His Val Leu Asn Thr Ser Leu Tyr Ser Val Ile Asn Thr
20 25 30

Pro Asp Phe Phe Pro Leu Thr Leu Cys His Pro Ser Val Cys Leu Val
35 40 45

Ser Ser Met Pro Cys Gly Arg Gly Val Ser Leu Ser Ser Ala Gln Glu
50 55 60

Gly Asn Phe Lys His Ile Cys Thr Ile Lys Phe Gln Ile Lys His Phe
65 70 75 80

Lys Lys Gly Ala Gln Thr Arg Asn Thr Cys Ser Ser Glu Ile Pro Cys
85 90 95

Cys Asn Cys Asn Ser Cys His Ile Tyr Pro Val Tyr Glu Glu Lys Phe
100 105 110

Leu Gln Phe Ser His Cys Pro Ser Val Leu Leu Pro Gly Cys Ala Leu
115 120 125

Leu Leu Glu Leu Lys Tyr Glu Ile Phe Thr Leu Lys Tyr Val Asn Val
130 135 140

Lys Val Asp Arg Ile Lys Phe Xaa Asn Pro Leu Arg Phe Ile
145 150 155

<210> 5509
<211> 54
<212> PRT
<213> Homo sapiens

<400> 5509
Ile Thr Gly Met Ser His Cys Ala Arg Pro Ser Phe Leu Phe Asn Lys
1 5 10 15

Cys Met Tyr Leu Lys Ala Ile Ala Phe Ser Arg Asn Leu Phe Leu Cys
20 25 30

Ser Gly Arg Ala Tyr Lys Leu Cys Leu Gln Leu Phe Phe Phe Ser Lys
35 40 45

Gly Asn Thr Ser Gly Arg
50

<210> 5510
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5510
Ser Thr Arg Gln Pro Asn Pro Phe Gly Ala Thr Ile Asp Cys Tyr Lys
1 5 10 15

Ala His Pro Trp Val Lys Ile Tyr Tyr Leu Gln Leu Tyr Leu Met Thr
20 25 30

Leu Ile Leu Pro Ser Ser Tyr Ile Lys Phe Gly Xaa Val Phe Tyr Xaa
35 40 45

Ile Ile Phe
50

<210> 5511
<211> 120
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5511
Gln Pro Arg Arg Pro Pro Arg Cys Pro Leu Pro Arg Gly Pro Trp Gly
1 5 10 15

Arg Pro Arg Ala Thr Gly Pro Gln Leu Gly Cys Ile Ser Ser Thr Ser
20 25 30

Cys Pro Ala Pro Thr Ser Ser Ser Ala Arg Cys Pro Ala Phe Ser Arg
35 40 45

Pro Arg Ala Gly Ile Pro Ala Gly Leu Val Ala Gly Gly Gly Leu Gly
50 55 60

Gly Pro Gly Leu Gly Pro Glu Pro His Phe His Arg Cys Leu Pro His
65 70 75 80

Pro Leu Leu Leu Leu Pro Ala Pro Arg Ala Pro Arg Val Gln Asp Pro
85 90 95

Leu Ala Arg Gly Arg Leu Arg His Leu Glu Leu Ile Val Pro Xaa Ser
100 105 110

Xaa Ala Ala Leu Ala Leu Ala Ser
115 120

<210> 5512
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5512
Ala Ile Leu Lys Gln Thr Pro Leu Lys Lys Gln Thr Asn Lys Lys Asn
1 5 10 15

Ile Asp Phe Phe Ile Ser Phe Glu Leu Pro Pro Phe Tyr Tyr Val Met
20 25 30

Asn Met Cys Cys Phe Cys Asn Arg Lys Ile Ile Lys Leu Lys Phe Gln
35 40 45

Leu Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
50 55 60

Lys Lys Xaa
65

<210> 5513
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5513
Asn Ala Thr Ile Ile Val Asn Lys Ile Pro Val Asn Thr Cys Cys Leu
1 5 10 15

Cys Cys Leu Ser Pro Asp Ser Arg Ala Glu Phe Ser Phe Cys Thr Val
20 25 30

Ala Leu Ala Leu Thr Val Thr Ala Leu Gln Gln Ala Pro Ser Pro Arg
35 40 45

Pro Phe Arg Ser Ile Pro Gln Arg Val Leu His Val Ser Ser Pro Met
50 55 60

Ser Ser Leu Gly Ser Ser Val Lys Thr His Ser Ser Pro Ala Gly Val
65 70 75 80

Leu Arg Asp Ala Arg Ser Leu Trp Gly Gln Phe Gly Xaa Ile Asp Ile
85 90 95

His Val

<210> 5514
<211> 61
<212> PRT
<213> Homo sapiens

<400> 5514
Gly Lys Lys Arg Lys Lys Leu Tyr Phe Phe Ser Ile Tyr Leu Leu Gln
1 5 10 15

Arg Thr Leu Cys Phe Leu Ser Cys Lys Thr Ser Tyr Phe Ser Tyr Tyr
20 25 30

Cys Thr Leu Glu Lys Ser Cys Arg Phe Met Leu Asn Ser Tyr Leu Arg
35 40 45

Thr Ile Val Ile Ser Ser Lys Arg His Glu Leu Ser Ser
50 55 60

<210> 5515
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5515
Phe Lys Ala Leu Asn Ser Lys Ser Ile Lys Thr Tyr Leu Gly Glu Thr
1 5 10 15

Gly Ile Met Gln Phe Ile Thr Cys Ile His Ser Ser Ile Gln Lys Tyr
20 25 30

Gly Xaa Ile Trp Tyr Leu Lys Leu Lys Cys Gly Ser Lys Ala Thr Lys
35 40 45

Ser Glu Thr Trp Xaa
50

<210> 5516
<211> 33
<212> PRT
<213> Homo sapiens

<400> 5516
Phe Ala Asn Leu Lys Ile Gly Thr Pro Leu Gly Met Pro Asp Arg Arg
1 5 10 15

Val Leu His Ile Cys Arg Gly Arg Gln Glu Leu Asn Ile Thr Thr Ser
20 25 30

Phe

<210> 5517
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5517
Ala Thr Glu Pro Ser Leu Leu Xaa Ser Phe Xaa His Asn Phe Cys Phe
1 5 10 15

```
Ile His Asn Phe Ser Ser Ile Glu Ser Arg Ile Lys Thr Trp Val Leu
            20                  25                  30

Ser Leu Xaa Leu Ser Val Glu Ala Tyr Glu Cys Leu Leu Lys Ile Met
        35                  40                  45

Phe Leu Asn Ala Leu Asn Ile Xaa Asp Tyr Lys Gly Ile Leu Leu Phe
    50                  55                  60

Glu Ile Arg Xaa
65
```

<210> 5518
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5518

```
Thr Asn Arg Pro Leu Ser Phe Pro Gln Phe Ile Thr Phe Ser Leu Phe
  1               5                  10                  15

Thr Leu Cys Pro Met Thr Phe Leu His His Trp Leu Leu Phe Ile Lys
            20                  25                  30

Pro Thr Ile Lys Asn Ile Gln Val Gln Leu Phe Leu Trp Ala Phe Ile
        35                  40                  45

Ser Leu Trp Xaa Pro Ser Cys Arg Val Lys Leu Ile Leu Asn Lys Cys
    50                  55                  60

Ala Cys Phe Ser Leu Ala Asn Leu Ser Phe Val Ile Glu Ile Ser Ala
65                  70                  75                  80

Leu Asn Leu Gly Trp Ile Glu Gly Asn Ile Cys Ser Pro Leu His
                85                  90                  95
```

<210> 5519
<211> 41
<212> PRT
<213> Homo sapiens

<400> 5519
Asp Gly Ile Val His Phe Leu Val Leu Ser Gln Val Gln Pro Val Cys
1 5 10 15

Gly Asn Leu Ser Leu Pro Thr Ser Phe Val Ala Leu Val Cys Ser Gly
20 25 30

Gln Lys Val Arg Ala Pro Leu Leu Thr
35 40

<210> 5520
<211> 155
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5520
Arg Cys Ser Ser Ile Phe Thr Pro Trp Lys Leu Thr Thr Leu Ser Ser
1 5 10 15

Phe Leu His His His Pro Gly Ala Gln Arg Ser Lys Leu Leu Ser Ile
20 25 30

Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg Met Gly Pro Ser
35 40 45

Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln Leu Ile Asn Xaa
50 55 60

Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp Lys Lys Ile Lys
65 70 75 80

Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro Ile Ser Lys Lys
85 90 95

Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro Ser Ser Cys Pro
100 105 110

Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr Gly Cys Gly Ser
115 120 125

Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln Cys Ser Val Val
130 135 140

Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr

145 150 155

<210> 5521
<211> 93
<212> PRT
<213> Homo sapiens

<400> 5521
Ile Lys Val Asp Gly Lys Ala Ile Ser Ile Arg Ile Glu Thr Glu Ser
1 5 10 15

Tyr Asn Thr Val Cys Thr Thr Leu Arg Trp Ile His Ser Ala His Ala
20 25 30

Leu Asn Val Tyr Ile Val Leu Ser Val Gly Ser Gly Thr Phe Ser Leu
35 40 45

Val Phe Leu Lys Asn Tyr Lys Ser Glu Glu Lys Ala Ser Ile Ile Asn
50 55 60

Lys Thr Asn Asn Cys Phe Thr Ala Leu Arg Asn Asn Asn Tyr Asn Val
65 70 75 80

Tyr Tyr Leu Lys Met Gly Glu Ile Val Cys Ser Met Lys
85 90

<210> 5522
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5522
Ile Ser His Ala Ile Ile Trp Val Cys Cys Ile Lys Ser Ser Thr Thr
1 5 10 15

Leu Trp Phe Ser His Cys Ile Ile Lys His Glu Ala Ser Arg Ile Lys
20 25 30

Ser Tyr Cys Phe Thr Cys Leu Leu Ser Pro Leu Cys His Phe Thr Phe
35 40 45

<210> 5523

<211> 169
<212> PRT
<213> Homo sapiens

<400> 5523
His Glu Glu Lys Thr Thr Tyr Asp Ser Ala Glu Glu Glu Asn Lys Glu
1 5 10 15

Asn Leu Tyr Ala Gly Lys Asn Thr Lys Ile Lys Arg Ile Tyr Lys Thr
20 25 30

Val Ala Asp Ser Asp Glu Ser Tyr Met Glu Lys Ser Leu Tyr Gln Glu
35 40 45

Asn Leu Glu Ala Gln Val Lys Pro Cys Leu Glu Leu Ser Leu Gln Ser
50 55 60

Gly Asn Ser Thr Asp Phe Thr Thr Asp Arg Lys Ser Ser Lys Lys His
65 70 75 80

Ile His Asp Lys Glu Gly Thr Ala Gly Lys Ala Lys Val Lys Ser Lys
85 90 95

Arg Arg Leu Glu Lys Glu Glu Arg Lys Met Glu Lys Ile Arg Gln Leu
100 105 110

Lys Lys Lys Glu Thr Lys Asn Gln Glu Asp Asp Val Glu Gln Pro Phe
115 120 125

Asn Asp Ser Gly Cys Leu Leu Val Asp Lys Asp Leu Phe Glu Thr Gly
130 135 140

Leu Glu Asp Glu Asn Asn Ser Pro Leu Glu Asp Glu Glu Ser Leu Glu
145 150 155 160

Ser Ile Arg Ala Ala Val Lys Asn Lys
165

<210> 5524
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5524
Gly Gly Thr Gly Ser Glu Cys Arg Ala Gln Gly Glu Ile Gly Ser Pro
1 5 10 15

Cys Arg Thr Cys Ser Ser Pro Ala Pro Lys Gly Asp Gly Val Trp Ala
20 25 30

```
Trp Gly Phe Leu His Val Pro Pro Tyr Pro Asp Pro Ser Ser Gln Ser
         35                  40                  45

Val Thr Leu Leu Trp Ala Gln Pro Pro Asn Arg Ser His Leu Gly Leu
     50                  55                  60

Gly Gln Thr
 65
```

<210> 5525
<211> 172
<212> PRT
<213> Homo sapiens

<400> 5525

```
Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Asp Ser Ser Lys
  1               5                  10                  15

Pro Ile Val Arg Glu Ser Trp Met Thr Glu Leu Pro Pro Glu Met Lys
             20                  25                  30

Asp Phe Gly Leu Gly Pro Arg Thr Phe Lys Arg Arg Ala Asp Asp Thr
         35                  40                  45

Ser Gly Asp Arg Ser Ile Trp Thr Asp Thr Pro Ala Asp Arg Glu Arg
     50                  55                  60

Lys Ala Lys Glu Thr Gln Glu Ala Arg Lys Ser Ser Ser Lys Lys Asp
 65                  70                  75                  80

Glu Glu His Ile Leu Ser Gly Arg Asp Lys Arg Leu Ala Glu Gln Val
                 85                  90                  95

Ser Ser Tyr Asn Glu Ser Lys Arg Ser Glu Ser Leu Met Asp Ile His
            100                 105                 110

His Lys Lys Leu Lys Ser Lys Ala Ala Glu Asp Lys Asn Lys Pro Gln
        115                 120                 125

Glu Arg Ile Pro Phe Asp Arg Asp Lys Asp Leu Lys Val Asn Arg Phe
    130                 135                 140

Asp Glu Ala Gln Lys Lys Ala Leu Ile Lys Lys Ser Arg Glu Leu Asn
145                 150                 155                 160

Thr Arg Phe Ser His Gly Lys Gly Asn Met Phe Leu
                165                 170
```

```
Arg Tyr Lys Ile Gln Lys Lys Val Arg Glu His His Arg Lys Leu Arg
         35                  40                  45

Lys Glu Ala Lys Lys Arg Gly His Lys Lys Pro Arg Lys Asp Pro Gly
     50                  55                  60

Val Pro Asn Ser Ala Pro Phe Lys Glu Ala Leu Leu Arg Glu Ala Glu
 65                  70                  75                  80

Leu Arg Lys Gln Arg Leu Glu Glu Leu Lys Gln Gln Gln Lys Leu Asp
                 85                  90                  95

Arg Gln Lys Glu Leu Glu Lys Lys Arg Lys Leu Glu Thr Asn Pro Asp
            100                 105                 110

Ile Lys Pro Ser Asn Val Glu Pro Met Glu Lys Glu Phe Gly Leu Cys
        115                 120                 125

Lys Thr Glu Asn Lys Ala Lys Ser Gly Lys Gln Asn Ser Lys Lys Leu
    130                 135                 140

Tyr Cys Gln Glu Leu Lys Lys Val Ile Glu Ala Ser Asp Val Val Leu
145                 150                 155                 160

Glu Val Leu Asp Ala Arg Asp Pro Leu Gly Cys Arg Cys Pro Gln Val
                165                 170                 175

Glu Glu Ala Ile Val Gln Ser Gly Gln Lys Lys Leu Val Leu Ile Leu
            180                 185                 190

Asn Lys Ser Asp Leu Val Pro Lys Glu Asn Leu Glu Ser Trp Leu Asn
        195                 200                 205

Tyr Leu Lys Lys Glu Leu Pro Thr Val Val Phe Arg Ala Ser Thr Lys
    210                 215                 220

Pro Lys Asp Lys Gly Lys Ile Thr Lys Arg Val Lys Ala Lys Lys Asn
225                 230                 235                 240

Ala Ala Pro Phe Arg Ser Glu Val Cys Phe Gly Lys Glu Gly Leu Trp
                245                 250                 255

Lys Leu Leu Gly Gly Phe Gln Glu Thr Cys Ser Lys Ala Ile Arg Val
            260                 265                 270

Gly Val Ile Gly Phe Pro Asn Val Gly Lys Ser Ser Ile Ile Asn Ser
        275                 280                 285

Leu Lys Gln Glu Gln Met Cys Asn Val Gly Val Ser Met Gly Leu Thr
    290                 295                 300
```

```
Arg Ser Met Gln Val Val Pro Leu Asp Lys Gln Ile Thr Ile Ile Asp
305                 310                 315                 320

Ser Pro Ser Phe Ile Val Ser Pro Leu Asn Ser Ser Ser Ala Leu Ala
                325                 330                 335

Leu Arg Ser Pro Ala Ser Ile Glu Val Val Lys Pro Met Glu Ala Ala
            340                 345                 350

Ser Ala Ile Leu Ser Gln Ala Asp Ala Arg Gln Val Val Leu Lys Tyr
        355                 360                 365

Thr Val Pro Gly Tyr Arg Asn Ser Leu Gly Ile Phe Tyr Xaa Ala Cys
    370                 375                 380

Ser Glu Lys Arg Tyr Ala Pro Lys Arg Trp Xaa Pro Lys Cys
385                 390                 395
```

<210> 5528
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5528

```
Gln Ser Gly Arg Gly Gly Asp Arg Gly Arg Ser Lys Val Asp Thr Ser
  1               5                  10                  15

Ala Lys Pro Phe Ala Val Ile Ser Asp Cys Ala Val Ser Cys Pro Val
             20                  25                  30

His Gln Ser Pro Leu Val Phe Asp Val Gly Gln Cys Arg Gln His Asp
         35                  40                  45
```

Leu Ala Gly Gln Xaa Leu Ile Tyr His Ser Xaa Asp Thr Ser Trp Ser
50 55 60

Leu Gly Ser Xaa His Pro Met Phe Pro Leu Phe Pro His Leu
65 70 75

<210> 5529
<211> 80
<212> PRT
<213> Homo sapiens

<400> 5529
Glu Pro Ala Trp Gly Asp Cys Gln Val Ala Lys Gly Lys Glu Arg Val
1 5 10 15

Ala Asn Cys Leu Leu His Leu Ala Ala Gln Pro Gly Leu Pro Ala Phe
20 25 30

Lys Gly His Phe Phe Gly Gln Glu Leu Thr Arg Met Ser Pro Glu Ser
35 40 45

Ser Thr Pro Arg Val Cys Gly Asn His Pro Leu Leu Asn Thr Glu Ser
50 55 60

Cys Arg Ile Ile Val Gly Lys Glu Ala Thr Ser Ser Glu Ala Val Val
65 70 75 80

<210> 5530
<211> 155
<212> PRT
<213> Homo sapiens

<400> 5530
Ala Val Thr Ser Leu Lys Ala Pro Val Ile Thr Leu Arg Ser Ser Ser
1 5 10 15

Ser Asn Cys His Pro Thr Ser Leu Ala Ser Cys Arg Lys Val Asn Leu
20 25 30

Asp Asn Thr Trp Leu Ser Phe Leu Thr Asn Ala Gly Ser Gly Arg Asn
35 40 45

Ser Leu Val Leu Lys Ser Lys Asn Thr Asn Cys Leu Arg Phe Ser Asn
50 55 60

```
Thr Pro Met Lys Ala Ser His Pro Ser Leu Leu Thr Arg Phe Pro Ala
 65                  70                  75                  80

Lys Phe Asn Cys Trp Lys Phe Phe Arg Gly Phe Phe Pro Lys Asn Ala
                 85                  90                  95

Pro Lys Ile Leu Ile Ser Val Ser Val Ser Leu Gln Phe Phe Asn Pro
            100                 105                 110

Ser Leu Thr Ser Cys Gly Thr Ser Ser Lys Cys Phe Asn Lys Leu Leu
        115                 120                 125

Arg Leu Pro Cys Thr Ser Gln Pro Gln Gly Ser Ile Ser Ala Val Ser
    130                 135                 140

Cys Ser Ser Thr Phe Ile Leu Ser Ile Ser Ser
145                 150                 155
```

<210> 5531
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5531

```
Ile Ile Val Ile Ile Gly Val Ser His His Ala Arg Pro Val Ser Ala
  1               5                  10                  15

Phe Ile Lys Ile Val His Ser Phe Ile His Ser Cys Ser Leu Lys Met
             20                  25                  30

Leu Phe Arg Lys Glu Phe Asp Lys Ile Asn Ile Ile Gln Asn Ser Lys
         35                  40                  45

Lys Lys Glu Xaa Ser Phe Cys Phe Ser His Lys Leu Gly Leu Leu
     50                  55                  60
```

<210> 5532
<211> 145
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5532
Lys Gln Pro Pro Leu Gln Ser His Pro Pro Ser Gly Cys Gly Arg Pro
1 5 10 15

Gly Trp Pro Ala Glu Ala Pro Arg Pro Gly Leu His Pro Ser Ala Gln
20 25 30

Thr Thr Ala Gly Arg Ala Gly Val Gln Val Gly Gln Leu Pro Pro Phe
35 40 45

His Pro Ser Pro Pro Leu Leu Arg Pro His Gln Glu Gln Asp Pro Cys
50 55 60

Ala Ser Val Val Leu Pro Cys Leu Gln Ala Ala Cys Gly Pro Ala Val
65 70 75 80

Thr Gln Pro Gly Asp Thr Thr Ser Pro Gly Gly Leu Cys Ala Xaa Arg
85 90 95

His Leu Arg Xaa Trp Lys Pro Ser Cys Gly Arg Arg Leu Gly Glu Gly
100 105 110

Arg Arg Glu Gly Gly His Ala Ala Ser Val Ala Ser Thr Thr Leu Thr
115 120 125

Val Pro Trp Arg Trp Leu Ser Pro Asp Arg Gly Gln Thr His Arg Ala
130 135 140

Arg
145

<210> 5533
<211> 113
<212> PRT
<213> Homo sapiens

<400> 5533
Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr
1 5 10 15

```
His Ala Ser Ala Asp Ala Trp Gly Lys Thr Phe Ala Arg Tyr Leu Ser
            20                  25                  30

Phe Arg Arg Asp Asn Asn Glu Leu Leu Leu Phe Ile Leu Lys Gln Leu
        35                  40                  45

Val Ala Glu Gln Val Thr Tyr Gln Arg Asn Arg Phe Gly Ala Gln Gln
    50                  55                  60

Asp Thr Ile Glu Val Pro Glu Lys Asp Leu Val Asp Lys Ala Arg Gln
65                  70                  75                  80

Ile Asn Ile His Asn Leu Ser Ala Phe Tyr Asp Ser Glu Leu Phe Arg
                85                  90                  95

Met Asn Lys Phe Ser His Asp Leu Lys Arg Lys Met Ile Leu Gln Gln
            100                 105                 110

Phe
```

<210> 5534
<211> 180
<212> PRT
<213> Homo sapiens

<400> 5534

```
Phe Ser Gln His Ser Arg Leu Ala Val His Arg Arg Ile His Thr Gly
  1               5                  10                  15

Glu Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Val Phe Ser Asp Arg
            20                  25                  30

Ser Ala Phe Ala Arg His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr
        35                  40                  45

Lys Cys Lys Glu Cys Gly Lys Val Phe Ser Gln Cys Ser Arg Leu Thr
    50                  55                  60

Val His Leu Arg Ile His Ser Gly Glu Lys Pro Tyr Lys Cys Asn Glu
65                  70                  75                  80

Cys Gly Lys Val Tyr Ser Gln Tyr Ser His Leu Val Gly His Arg Arg
                85                  90                  95

Val His Thr Gly Glu Lys Pro Tyr Lys Cys His Glu Cys Gly Lys Ala
            100                 105                 110
```

```
Phe Asn Gln Gly Ser Thr Leu Asn Arg His Gln Arg Ile His Thr Gly
        115                 120                 125

Glu Lys Pro Tyr Lys Cys Asn Gln Cys Gly Asn Ser Phe Ser Gln Arg
    130                 135                 140

Val His Leu Arg Leu His Gln Thr Val His Thr Gly Asp Arg Pro Tyr
145                 150                 155                 160

Lys Cys Asn Glu Cys Gly Gln Asn Leu Leu Asn Gly Ala Gln Thr Ser
                165                 170                 175

Leu His Ile Arg
            180
```

<210> 5535
<211> 164
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5535

```
Pro Arg Met Ala Thr Gln Arg Lys His Leu Val Lys Asp Phe Asn Pro
  1               5                  10                  15

Tyr Ile Thr Cys Tyr Ile Cys Lys Gly Tyr Leu Ile Lys Pro Thr Thr
             20                  25                  30

Val Thr Glu Cys Leu His Thr Phe Cys Lys Thr Cys Ile Val Gln His
         35                  40                  45

Phe Glu Asp Ser Asn Asp Cys Pro Arg Cys Gly Asn Gln Val His Glu
     50                  55                  60

Thr Asn Pro Leu Glu Met Leu Arg Leu Asp Asn Thr Leu Glu Glu Ile
```

65 70 75 80

Ile Phe Lys Leu Val Pro Gly Leu Arg Glu Gln Glu Leu Glu Arg Glu
85 90 95

Ser Glu Phe Trp Lys Xaa Asn Lys Pro Gln Xaa Asn Gly Gln Asp Asp
100 105 110

Thr Ser Lys Ala Asp Lys Pro Lys Val Asp Glu Glu Gly Asp Glu Asn
115 120 125

Glu Asp Asp Lys Asp Tyr Pro Gln Glu Val Thr His Lys Leu Ala Ile
130 135 140

Cys Leu Gly Cys Phe Thr Xaa Leu Met Gly Pro Phe Gly Gly His Val
145 150 155 160

Gly Lys Gly Phe

<210> 5536
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5536
Asn Ser Val Lys Phe Cys Leu Lys Lys Pro Leu Ile Glu Phe Glu Asn
1 5 10 15

His Lys Pro Phe Gln Val Ser Leu Trp Val Cys Phe Gly Phe Phe Phe
20 25 30

Phe Phe Leu Ser Leu Trp Pro Asn Val Arg Gly Ile Arg Phe Cys Lys
35 40 45

Gln Ala Ala Val Ser Ile Ser
50 55

<210> 5537
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5537
Ser Gly Pro Pro Gly Leu His Ser Arg Ser Ser Pro Ala Pro Ser Ala
1 5 10 15

Ser Val Glu Pro Gln Ala Trp Xaa Arg Asp Glu Arg Asp Ala Ala Leu
20 25 30

Ala Arg Gly Arg Pro Ser Ala Pro Lys Thr Arg Glu Gln Ala Pro Gly
35 40 45

Glu Lys Pro Leu Glu Val Ser Trp Ser Arg Glu Ser Pro Val Ser Cys
50 55 60

<210> 5538
<211> 68
<212> PRT
<213> Homo sapiens

<400> 5538
Ala Phe Asp Gly Leu Ser Thr Ser Ser Ser Gln His Ile Leu Pro Ala
1 5 10 15

Val Ala Ala Trp Leu Gly Leu Phe Phe Ser Tyr Pro Asn Pro Met Met
20 25 30

Pro Gly Thr Leu Ile Thr Val Leu His Gln Leu Leu Tyr Phe Ser Val
35 40 45

Tyr Phe His Asn Glu Leu Tyr Cys His Leu Asp Phe Glu Gln Leu Trp
50 55 60

Glu Ile Glu Asp
65

<210> 5539
<211> 113
<212> PRT
<213> Homo sapiens

<400> 5539
Gln Glu Pro Pro Ile Met Ala Glu Gly Lys Gly Gly Val Ser Cys Leu
1 5 10 15

```
Thr Trp Pro Glu Gln Glu Val Glu Arg Gly Arg Cys His Thr Leu Thr
            20                  25                  30

Asn Asn Gln Ile Ser Gly Gln Leu Thr Gln Tyr Gln Glu Asn Ser Thr
        35                  40                  45

Thr Lys Leu Trp Leu Ile Ile His Glu Lys Pro Pro Thr Thr Gln Ser
    50                  55                  60

Pro Pro Thr Arg Pro Tyr Leu Gln His Leu Gly Leu Gln Phe Asn Met
65                  70                  75                  80

Arg Phe Gly Gly Asn Thr Asp Pro Asn His Ile Thr His Lys Leu Gln
                85                  90                  95

Leu Leu His Thr His Asp Asn Pro Leu Ile Cys Glu Gly Leu Ile Cys
            100                 105                 110

Ser
```

<210> 5540
<211> 33
<212> PRT
<213> Homo sapiens

<400> 5540

```
Ser Arg Tyr Tyr Ser Glu Ala Cys Ile Leu Tyr Ala Ser Gly His Val
  1               5                  10                  15

Leu Ser Cys Glu Val Arg Cys Ile Ser Tyr Cys Gly Leu Gln Ser Lys
            20                  25                  30

Phe
```

<210> 5541
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5541

```
Gly Ala Asp Ser Ala Cys Pro Gly Pro Ala Lys Trp Leu Ser Ser Leu
  1               5                  10                  15

Arg Ala His Val Val Arg Thr Gly Ile Gly Gln Ala Arg Ala Lys Leu
            20                  25                  30
```

```
Phe Glu Lys Gln Ile Val Gln His Gly Gly Gln Leu Cys Pro Ala Gln
         35                  40                  45

Gly Pro Gly Val Thr His Ile Val Val Asp Glu Ala Trp Thr Met
     50                  55                  60
```

<210> 5542
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5542

```
Met Ser Gln Ala Gly Asn Ser Glu Val Tyr Leu Ala Ile His Val Phe
  1               5                  10                  15

Lys Met Ala Ala Ser Arg Arg Phe Thr Gly Val Pro Asp Arg Arg Gly
             20                  25                  30

Gly Gly Ala Gln Ala Arg Met Lys Leu Glu Leu Ala Arg Ser Arg Lys
         35                  40                  45

Thr Ile Ala Gly Gly Thr Ala Ser Val Gly Ala Glu Glu Thr
     50                  55                  60
```

<210> 5543
<211> 317
<212> PRT
<213> Homo sapiens

<400> 5543

```
Gly Gly Pro Met Lys Asp Cys Glu Tyr Ser Gln Ile Ser Thr His Ser
  1               5                  10                  15

Ser Ser Pro Met Glu Ser Pro His Lys Lys Lys Lys Ile Ala Ala Arg
             20                  25                  30

Arg Lys Trp Glu Val Phe Pro Gly Arg Asn Lys Phe Phe Cys Asn Gly
         35                  40                  45

Arg Ile Met Met Ala Arg Gln Thr Gly Val Phe Tyr Leu Thr Leu Val
     50                  55                  60

Leu Ile Leu Val Thr Ser Gly Leu Phe Phe Ala Phe Asp Cys Pro Tyr
 65                  70                  75                  80

Leu Ala Val Lys Ile Thr Pro Ala Ile Pro Ala Val Ala Gly Ile Leu
```

```
                85                  90                  95

Phe Phe Phe Val Met Gly Thr Leu Leu Arg Thr Ser Phe Ser Asp Pro
            100                 105                 110

Gly Val Leu Pro Arg Ala Thr Pro Asp Glu Ala Ala Asp Leu Glu Arg
        115                 120                 125

Gln Ile Asp Ile Ala Asn Gly Thr Ser Ser Gly Gly Tyr Arg Pro Pro
    130                 135                 140

Pro Arg Thr Lys Glu Val Ile Ile Asn Gly Gln Thr Val Lys Leu Lys
145                 150                 155                 160

Tyr Cys Phe Thr Cys Lys Ile Phe Arg Pro Pro Arg Ala Ser His Cys
                165                 170                 175

Ser Leu Cys Asp Asn Cys Val Glu Arg Phe Asp His His Cys Pro Trp
            180                 185                 190

Val Gly Asn Cys Val Gly Lys Arg Asn Tyr Arg Phe Phe Tyr Met Phe
        195                 200                 205

Ile Leu Ser Leu Ser Phe Leu Thr Val Phe Ile Phe Ala Phe Val Ile
    210                 215                 220

Thr His Val Ile Leu Arg Ser Gln Gln Thr Gly Phe Leu Asn Ala Leu
225                 230                 235                 240

Lys Asp Ser Pro Ala Ser Val Leu Glu Ala Val Val Cys Phe Phe Ser
                245                 250                 255

Val Trp Ser Ile Val Gly Leu Ser Gly Phe His Thr Tyr Leu Ile Ser
            260                 265                 270

Ser Asn Gln Thr Thr Asn Glu Asp Ile Lys Gly Ser Trp Ser Asn Lys
        275                 280                 285

Arg Gly Lys Glu Asn Tyr Asn Pro Tyr Ser Tyr Gly Asn Ile Phe Thr
    290                 295                 300

Asn Cys Cys Val Ala Leu Cys Gly Pro Ser His Gln Ala
305                 310                 315
```

<210> 5544
<211> 76
<212> PRT
<213> Homo sapiens

<400> 5544
Ile Val Gly Leu Phe His Met Cys Ser Leu Lys Tyr Leu Asn Asn His
1 5 10 15

Ser Phe His Ser Leu Phe Ser Ser Gln Ala Phe Ser Arg Ser Ser Met
20 25 30

Trp Ile Leu Lys Asp Leu Pro Ser Leu Thr Arg Ile Thr Phe Lys Gly
35 40 45

Asp Cys Phe Lys Ile Phe Leu Gln Ile Glu Ile Arg Thr Glu Arg Leu
50 55 60

Arg Asn Ile Val Tyr Phe Ala Lys Thr Arg Cys Leu
65 70 75

<210> 5545
<211> 117
<212> PRT
<213> Homo sapiens

<400> 5545
Glu Thr Leu Val Asn Trp Ser Thr Gly Glu Ser Tyr Lys Trp Pro Met
1 5 10 15

Ser Gln Lys Ser Trp Asp Leu Leu Pro Ala Ala Ala Asp Ala Asp Arg
20 25 30

Pro Trp Glu Ala Ala Val Leu Trp Arg Ser Trp Ser Ser Ser Phe Leu
35 40 45

Gly Leu Ala Trp Leu Pro Gln Lys Glu Gln Ser Gly Leu Glu Gly Ser
50 55 60

Ile Lys Phe Tyr Thr His Lys Leu Gln Leu Glu Val Ser Phe Leu Lys
65 70 75 80

Cys Pro Ala Phe Ala Gln Leu Phe Gln Ile Ile Ser Phe Leu Arg Leu
85 90 95

Trp Gln Val Ser Cys Pro Pro Ser Tyr Ser Ser Val Phe Thr Ser Ser
100 105 110

Arg Gln Gln Ser Gly
115

<210> 5546

<211> 67
<212> PRT
<213> Homo sapiens

<400> 5546
Val Gln Ile Asn His Pro Asp Leu Lys Val Asn Thr Phe Tyr Phe Ser
1 5 10 15

Phe Arg Ser Ile Thr Glu Tyr Ala Ala Phe Arg Tyr Arg Phe Asn Leu
20 25 30

Pro Asp Phe Leu Lys Ile Leu Tyr Phe Tyr Ile Ala Thr Thr Gly Leu
35 40 45

Leu Asn Met Gln Leu Asn Cys Tyr Leu Asn Lys Leu His Leu Met Glu
50 55 60

Lys Lys Lys
65

<210> 5547
<211> 315
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5547
Asn Ile Glu Gln Glu Asn Glu Lys Leu Lys Ala Glu Leu Glu Lys Leu
1 5 10 15

Lys Ala His Leu Gly His Gln Leu Ser Met His Tyr Glu Ser Lys Thr
20 25 30

Lys Gly Thr Glu Lys Ile Ile Ala Glu Asn Glu Arg Leu Arg Lys Glu
35 40 45

Leu Lys Lys Glu Thr Asp Ala Ala Glu Lys Leu Arg Ile Ala Lys Asn
50 55 60

Asn Leu Glu Ile Leu Asn Glu Lys Met Thr Val Gln Leu Glu Glu Thr
65 70 75 80

Gly Lys Arg Leu Gln Phe Ala Glu Ser Arg Gly Pro Gln Leu Glu Gly
85 90 95

```
Ala Asp Ser Lys Ser Trp Lys Ser Ile Val Val Thr Arg Met Tyr Glu
            100                 105                 110

Thr Lys Xaa Lys Glu Leu Glu Thr Asp Ile Ala Lys Lys Asn Gln Ser
        115                 120                 125

Ile Thr Asp Leu Lys Gln Leu Val Lys Glu Ala Thr Glu Arg Glu Gln
    130                 135                 140

Lys Val Asn Lys Tyr Asn Glu Asp Leu Glu Gln Gln Ile Lys Ile Leu
145                 150                 155                 160

Lys His Val Pro Glu Gly Ala Glu Thr Glu Gln Gly Leu Lys Arg Glu
                165                 170                 175

Leu Gln Val Leu Arg Leu Ala Asn His Gln Leu Asp Lys Glu Lys Ala
            180                 185                 190

Glu Leu Ile His Gln Ile Glu Ala Asn Lys Asp Gln Ser Gly Ala Glu
        195                 200                 205

Ser Thr Ile Pro Asp Ala Asp Gln Leu Lys Glu Lys Ile Lys Asp Leu
    210                 215                 220

Glu Thr Gln Leu Lys Met Ser Asp Leu Glu Lys Gln His Leu Lys Glu
225                 230                 235                 240

Glu Ile Lys Lys Leu Lys Lys Glu Leu Glu Asn Phe Asp Pro Ser Phe
                245                 250                 255

Phe Glu Glu Ile Glu Asp Leu Lys Tyr Asn Tyr Lys Glu Glu Val Lys
            260                 265                 270

Lys Asn Ile Leu Leu Glu Glu Lys Val Lys Lys Leu Ser Glu Gln Leu
        275                 280                 285

Gly Val Glu Leu Thr Ser Pro Val Ala Ala Ser Glu Glu Phe Glu Asp
    290                 295                 300

Glu Glu Glu Ser Pro Val Asn Phe Pro Ile Tyr
305                 310                 315
```

<210> 5548
<211> 191
<212> PRT
<213> Homo sapiens

<400> 5548
Gln Leu Asn Thr Ser Ser Thr Asn His Gln Leu Pro Ser Glu His Gln

```
  1               5                  10                  15

Thr Ile Leu Ser Ser Arg Asp Ser Arg Asn Ser Leu Arg Ser Asn Phe
             20                  25                  30

Ser Ser Arg Glu Ser Glu Ser Ser Arg Ser Asn Thr Gln Pro Gly Phe
         35                  40                  45

Ser Tyr Ser Ser Ser Arg Asp Glu Ala Pro Ile Ile Ser Asn Ser Glu
     50                  55                  60

Arg Val Val Ser Ser Gln Arg Pro Phe Gln Glu Ser Ser Asp Asn Glu
 65                  70                  75                  80

Gly Arg Arg Thr Thr Arg Arg Leu Leu Ser Arg Ile Ala Ser Ser Met
                 85                  90                  95

Ser Ser Thr Phe Phe Ser Arg Arg Ser Ser Gln Asp Ser Leu Asn Thr
            100                 105                 110

Arg Ser Leu Asn Ser Glu Asn Ser Tyr Val Ser Pro Arg Ile Leu Thr
        115                 120                 125

Ala Ser Gln Ser Arg Ser Asn Val Pro Ser Ala Ser Glu Val Pro Asp
    130                 135                 140

Asn Arg Ala Ser Glu Ala Ser Gln Gly Phe Arg Phe Leu Arg Arg Arg
145                 150                 155                 160

Trp Gly Leu Ser Ser Leu Ser His Asn His Ser Ser Glu Ser Asp Ser
                165                 170                 175

Glu Asn Phe Asn Gln Glu Ser Glu Gly Arg Asn Thr Gly Pro Trp
            180                 185                 190
```

<210> 5549
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5549

```
Ala Asn Thr Ser Thr Arg Ala Ala Leu Tyr Cys Leu Phe Leu Ser Phe
  1               5                  10                  15
```

```
Ile Met Phe Ala Ser Val Leu Gln Ile Asn Pro Arg Ser Trp Leu Met
            20                  25                  30

Lys Lys Val Ile Thr Val Leu Ala Ala Cys Leu Glu Ser Glu Asn Gln
        35                  40                  45

Asn Ala Gln Arg Ile Gly Ala Ala Xaa Leu Trp Ala Leu Ile Tyr Asn
    50                  55                  60

Tyr Gln Lys Ala Lys Thr Ala Leu Lys Ser Pro Ser Val Lys Arg Arg
65                  70                  75                  80

Val Asp Glu Ala Tyr Ser Leu Ala Lys Lys Thr Phe Pro Asn Ser Glu
                85                  90                  95

Ala Asn Pro Leu Asn Ala Tyr Tyr Leu Lys Cys Leu Glu Asn Leu Val
            100                 105                 110

Gln Leu Leu Asn Ser Ser Leu Ser Ala His Gly Met Pro Thr Pro
        115                 120                 125
```

<210> 5550
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5550

```
Leu Asn His Leu Gln Asn Ala Ser Thr Pro Gly Tyr Ser Lys Leu Pro
  1               5                  10                  15

Phe Gln Ile His Phe Gln Thr Ala Leu Thr Trp Ala Ser His Trp Xaa
            20                  25                  30

Ser Trp Leu Leu Val Gly Ala Ile Ser Cys Val Asp Pro Gln Val Arg
        35                  40                  45

Gly Pro Gly Pro Pro Ala Pro Pro Xaa Gln Arg Gly Glu Pro Ala Gln
    50                  55                  60
```

```
Phe Phe Trp Ser Leu Lys Cys Val Pro Leu Leu Val Ala Arg Ser Pro
 65                  70                  75                  80

Gln Trp Gly Gly Leu Thr Arg Thr Arg
                 85
```

<210> 5551
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5551

```
Ala Arg Gln Val Lys Ser Leu Arg Asp Pro Ser Ala Lys Met Ser Lys
  1               5                  10                  15

Ser Asp Pro Asp Lys Leu Ala Thr Val Arg Ile Thr Asp Ser Pro Glu
             20                  25                  30

Glu Ile Val Gln Lys Phe Arg Lys Ala Val Thr Asp Phe Thr Ser Glu
         35                  40                  45

Val Thr Tyr Asp Pro Ala Gly Arg Ala Gly Val Ser Asn Ile Val Ala
     50                  55                  60

Val His Ala Ala Val Thr Gly Leu Ser Val Glu Glu Val Val Arg Arg
 65                  70                  75                  80

Xaa Ala Gly Xaa Glu His Cys Ser Leu Gln Ala Gly Arg Gly Arg Cys
                 85                  90                  95

Cys Asp
```

<210> 5552
<211> 74
<212> PRT
<213> Homo sapiens

<400> 5552
Thr Glu Glu Val Asp Ser Val Ala Val Ser Val Leu Ala Leu Gly Ser
1 5 10 15

Arg Ile Gly Glu Leu Arg Ala Pro Ile Trp Asp Glu Glu Ser Arg Lys
20 25 30

Gln Leu Ser Ile Ser Ile Lys Arg Ala Glu Gln Pro Leu Ser Leu His
35 40 45

Pro Pro Ser Ala Leu Phe Ser Leu Pro Pro Ser Leu Leu Ser Phe His
50 55 60

Ser Val Tyr Val Ser Phe Gly Pro Ile Pro
65 70

<210> 5553
<211> 65
<212> PRT
<213> Homo sapiens

<400> 5553
Gly Thr Gly Ser Gln Cys Thr Gln His Gly Ala Ile Ser Asp Val Ile
1 5 10 15

Gln Arg Met Arg Gln Asp Lys Ser Tyr Cys Leu Ile Lys Gly Lys Leu
20 25 30

Gly Thr Gly Met Leu Phe Lys Leu Arg Lys Ile Phe Trp Gly Val Lys
35 40 45

Leu Asp Ser Thr Glu Ser Leu Glu Lys Leu Ala Trp Arg Glu Lys Arg
50 55 60

His
65

<210> 5554
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5554
Ala Pro Thr Asn Leu Phe Phe Phe Phe Phe Phe Glu Thr Glu Ser Gly
1 5 10 15

Cys Ala Ser His Phe Leu Ser Phe Xaa Xaa Ser Glu Leu Thr Glu Gln
20 25 30

Pro Gly Arg Cys Gly Phe Arg Ser Leu Xaa Leu Ser Xaa Cys Ala Lys
35 40 45

Cys Trp Gly Arg Arg Xaa Gln Arg Val Asp Ser Gly Met Val Pro Ala
50 55 60

Ala Ser His Phe Tyr Ala Lys Pro Asp Phe Xaa Ser His Pro Gly Gly
65 70 75 80

Gln Phe

<210> 5555
<211> 47
<212> PRT
<213> Homo sapiens

<400> 5555
Ile Phe Ile Ile Glu Val Ser Phe Pro Leu Gly Ile Ser Leu Ser Leu
1 5 10 15

Phe Phe Phe Asn Glu Asn Gln Ser Thr Glu Tyr Phe Val Ser Pro Arg
20 25 30

Lys Thr Pro Gln Leu Ser Ile Met Leu Ser Thr Arg Glu Lys Leu
35 40 45

<210> 5556
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5556
Gly Asn Cys Gln Lys Cys Ala Phe Gly Tyr Ser Gly Leu Asp Cys Lys
1 5 10 15

Asp Lys Phe Gln Leu Ile Leu Thr Ile Val Gly Thr Ile Ala Gly Ile
20 25 30

Val Ile Leu Ser Met Ile Ile Ala Leu Ile Val Thr Ala Arg Ser Asn
35 40 45

Asn Lys Thr Lys His Ile Glu Glu Glu Asn Leu Ile Asp Glu Asp Phe
50 55 60

Gln Asn Leu Lys Leu Arg Ser Thr Gly Phe Thr Asn Leu Gly Ala Glu
65 70 75 80

Gly Ser Val Phe Pro Lys Val Arg Ile Thr Ala Ser Arg Asp Ser Gln
85 90 95

Met Gln Asn Pro Tyr Ser Xaa His Ser Ser Met Pro Arg Pro Asp Tyr
100 105 110

<210> 5557

<211> 152
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5557

```
Phe Thr Ala Arg Ser Pro Trp Glu Tyr Thr Asn Leu Cys Ser Arg Gln
  1               5                  10                  15

Leu Gly Ala Ser Leu Leu Glu Thr Val Leu Ile Phe Phe Phe Leu Ser
             20                  25                  30

Glu Phe Gln Leu Ile Leu Thr Ile Val Gly Thr Ile Ala Gly Ile Val
         35                  40                  45

Ile Leu Ser Met Ile Ile Ala Leu Ile Val Thr Ala Arg Ser Asn Asn
     50                  55                  60

Lys Thr Lys His Ile Glu Glu Glu Asn Leu Ile Asp Glu Asp Phe Gln
 65                  70                  75                  80

Asn Leu Lys Leu Arg Ser Thr Gly Phe Thr Asn Leu Gly Ala Glu Gly
                 85                  90                  95

Ser Val Phe Pro Lys Val Arg Ile Thr Ala Ser Arg Asp Ser Gln Met
            100                 105                 110

Gln Asn Pro Tyr Ser Ser His Thr Gln Lys Lys Lys Lys Lys Lys Lys
        115                 120                 125

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys
    130                 135                 140

Lys Lys Xaa Lys Lys Lys Xaa Gly
145                 150
```

<210> 5558
<211> 169
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5558
Phe Phe Phe Xaa Val Xaa Glu Lys Ser Ile Leu Leu Val Ser Leu Xaa
1 5 10 15

Val Cys Leu Val Leu Ser Glu Ile Pro Phe Met Ser Thr Trp Phe Leu
20 25 30

Leu Val Ser Thr Phe Ser Met Leu Pro Leu Leu Xaa Lys Asp Glu Leu
35 40 45

Leu Met Pro Ser Val Val Thr Thr Met Ala Phe Phe Ile Ala Cys Val
50 55 60

Thr Ser Phe Ser Ile Phe Glu Lys Thr Ser Glu Glu Glu Leu Gln Leu
65 70 75 80

Lys Ser Phe Ser Ile Ser Val Arg Lys Tyr Leu Pro Cys Phe Thr Phe
85 90 95

Leu Ser Arg Ile Ile Gln Tyr Leu Phe Leu Ile Ser Val Ile Thr Met
100 105 110

Val Leu Leu Thr Leu Met Thr Val Thr Leu Asp Pro Pro Gln Lys Leu
115 120 125

```
Pro Asp Leu Phe Ser Val Leu Val Cys Phe Val Ser Cys Leu Asn Phe
    130                 135                 140

Leu Phe Phe Leu Val Tyr Phe Asn Ile Ile Ile Met Trp Asp Ser Lys
145                 150                 155                 160

Ser Gly Arg Asn Gln Lys Lys Ile Ser
                165
```

<210> 5559
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5559

```
Gly Trp Arg His Gly Gly Glu His His Gln Asp His Val Glu Leu Gly
  1               5                  10                  15

Arg Asp Cys Pro Pro Lys Lys Asn Ile Gly Pro Leu Gln Ala Gln Pro
             20                  25                  30

Pro Leu Pro Leu Glu Phe Phe Ser Gln Ala Gln Cys Gln Lys Phe Ser
         35                  40                  45

Leu Gly Trp Xaa Gln Ile Cys Xaa Thr Gly Phe Pro Xaa Ser Ser Thr
     50                  55                  60

Leu Pro Pro
 65
```

<210> 5560
<211> 115

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5560
Ser Ser Lys Cys Gly Phe Ser Cys Ile Ser Gln Ile Gly Arg Pro Gly
1 5 10 15

Val Val Gly Val Pro Gly Gly Arg Leu Trp Ala Gly Ser Gln Asp Pro
20 25 30

Pro Phe Leu Gly Gly Asp Arg Ala Cys Gly Ala Ala Pro Arg Asn Val
35 40 45

Arg Arg Lys Arg Glu Arg Ala Leu Ala Pro Ser Ala Ser Cys Leu Arg
50 55 60

Cys Trp Arg Leu Pro Ile Arg Trp Phe Tyr Pro Gln Thr Pro Gly His
65 70 75 80

Arg Glu Ser Arg Arg Lys Gly Gln Pro Arg Ile Pro Ala Gly Phe Leu
85 90 95

His Arg Gly Ala Ser Gln Phe Leu His Leu Ile Phe Xaa Ser Cys Gly
100 105 110

Arg Cys Tyr
115

<210> 5561
<211> 210
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (193)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5561

```
Glu Glu Ala Ala Lys Ala Ala Gly Thr His Phe Thr Ser Gln Gln Leu
  1               5                  10                  15

Gln Glu Leu Glu Ala Thr Phe Gln Arg Asn Arg Tyr Pro Asp Met Ser
             20                  25                  30

Thr Arg Glu Glu Ile Ala Val Trp Thr Asn Leu Thr Glu Ala Arg Val
         35                  40                  45

Arg Val Trp Phe Lys Asn Arg Arg Ala Lys Trp Arg Lys Arg Glu Arg
     50                  55                  60

Asn Gln Gln Ala Glu Leu Cys Lys Asn Gly Phe Gly Pro Gln Phe Asn
 65                  70                  75                  80

Gly Leu Met Gln Pro Tyr Asp Asp Met Tyr Pro Gly Tyr Ser Tyr Asn
                 85                  90                  95

Asn Trp Ala Ala Lys Gly Leu Thr Ser Ala Ser Leu Ser Thr Lys Ser
            100                 105                 110

Phe Pro Phe Phe Asn Ser Met Asn Val Asn Pro Leu Ser Ser Gln Ser
        115                 120                 125

Met Phe Ser Pro Pro Asn Ser Ile Xaa Ser Met Ser Met Xaa Ser Ser
    130                 135                 140
```

```
Met Val Pro Ser Ala Val Thr Gly Val Pro Gly Ser Ser Leu Asn Ser
145                 150                 155                 160

Leu Asn Asn Leu Asn Asn Leu Ser Ser Pro Xaa Leu Asn Ser Ala Val
                165                 170                 175

Pro Thr Xaa Ala Cys Pro Tyr Ala Pro Pro Thr Ser Ser Val Cys Leu
            180                 185                 190

Xaa Gly His Val Xaa Ser Ser Leu Ala Ser Leu Arg Leu Lys Ala Lys
        195                 200                 205

Gln Xaa
    210
```

<210> 5562
<211> 101
<212> PRT
<213> Homo sapiens

<400> 5562

```
Thr Leu Thr Val Gln Val Val His Cys Asn Glu Val Thr His Ile Cys
  1               5                  10                  15

Trp Leu His Lys Leu Gln Val Leu Leu Ser Gln Tyr Gly Thr Leu Asn
             20                  25                  30

Cys Asp Val Val Gln Gln Leu Pro Ala Ser Ser Gln Leu Ile Arg Cys
         35                  40                  45

Glu Tyr Phe Gly Leu Asp Leu Gln Pro Asp Ala Val Leu Gln Pro Lys
     50                  55                  60

Lys Lys Val Glu Pro Met Ile Lys Asn Cys Ser Gln Asp Glu Pro Gly
 65                  70                  75                  80

Lys Lys Ser Ala Lys Leu Pro Trp Arg Ser Ala Gly Thr Leu Val Met
                85                  90                  95

Thr Gly Ile Thr Pro
            100
```

<210> 5563
<211> 117
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5563
Ile Pro Pro Ala Gln Leu Trp Gln Arg Leu Leu Ala Leu Val Ile Ser
1 5 10 15

Ser Ile Ile Gln Ile His Tyr His Pro Asn Pro Ser Pro Ile Phe Gly
20 25 30

Leu Gly Glu Lys Asn Met Asn Tyr Asp Asp Arg Thr Ser Ser Lys Pro
35 40 45

Ser Pro Val Leu Ser Glu Tyr Pro Phe Trp Gly Cys Ile Pro Gln Lys
50 55 60

Pro Ile Trp Gly Pro Ile Ser Met Tyr Thr Glu Leu Lys Phe Gln Val
65 70 75 80

Pro Leu Cys Ile Lys Arg Ser Gln Asn Phe Gly Gln Ala Xaa Gly Thr
85 90 95

Leu Lys Ser His Gln Cys Asn Tyr Thr Leu Glu Ile Ile Asn Pro Ser
100 105 110

His Asp Tyr Ile Ser
115

<210> 5564
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5564
Leu Pro Val Phe Glu Asp Val Gly Arg Val Cys Lys Tyr Ser Ala Phe
1 5 10 15

Pro Leu Thr His Ala Gly Glu Asp Ala Ser Ser Leu Ala Pro Ala Val
20 25 30

Arg Ala Gln Ile Ala Arg Val Lys Thr Ser Ser Leu Gly Arg Glu Val
35 40 45

Cys Arg Gly Leu Glu Val Ile
50 55

<210> 5565
<211> 47
<212> PRT
<213> Homo sapiens

<400> 5565
Lys Leu Lys Glu Ile Lys Lys Leu Leu Glu Glu Asn Ala Gly Ile Asn
1 5 10 15

Leu Tyr Asp Leu Arg Leu Gly Ser Gly Phe Leu Asp Met Thr Pro Lys
20 25 30

Ala Lys Gln Gln Lys Lys Glu Asn Leu Lys Trp Met Ser Ser Glu
35 40 45

<210> 5566
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5566
Gly Pro Val Leu His Gln Arg Ile Leu Ile Ser Ala Ser Gly Val Gly
1 5 10 15

Glu Xaa Arg Xaa Ile Tyr Ile Gly Gln Asn Arg Gly Val Glu Gln Asp
20 25 30

Tyr Ser Ile Phe
35

<210> 5567
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5567
Pro Gly Ala Val Val Gly Val Xaa Arg Val Met Thr Trp Ser Gly Trp
1 5 10 15

Ala Trp Ala Asp Val His Ile Val Cys Thr Leu Asp Pro Trp Pro Arg
20 25 30

Arg Thr Gln Ile Leu Thr Ser Arg Asn Phe His Leu Met Asn Ile Met
35 40 45

Arg Ile Gly Gly Lys Glu Asn Ser Leu Tyr Arg Ile Asn Pro Ser Phe
50 55 60

Leu Gln Gly
65

<210> 5568
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5568
Glu Asn Ala Phe Gln Asp Leu Ser Ser Thr His Pro Leu Ser Leu Pro
1 5 10 15

Gln Pro His Ile Trp Gly His Asn Ser Thr Cys Val Lys Asp Asn Leu
20 25 30

Leu Leu Phe Thr Glu Pro Pro Gly Ile Gln Asp Asn Lys Xaa Leu His
35 40 45

Xaa Asp Gln Gln Val Ser Phe Ser Ala Pro Ser Phe Ile Thr Pro Phe
50 55 60

Phe Pro Ser Glu Val His Thr His Pro Tyr Met Ala Ala Val Gly Ile
65 70 75 80

Ser Thr Gly

<210> 5569
<211> 58
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5569
Met Val Leu Ser Pro Ser Gly Val Ser Lys Cys Ile Arg Lys Gln Asn
1 5 10 15

Ser Val Val Ser His Ser Ser Leu Cys Ala Arg Cys Leu Arg Arg Gly
20 25 30

Ser Tyr Arg Ser Pro Arg Xaa Asn Gln Ala His Leu Ser Leu Gly Val
35 40 45

Gly Gln Ser Gly Lys Ala Phe Trp Lys Met
50 55

<210> 5570
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5570
Ser His Thr Thr Lys Asn Thr Asp Phe Thr Asp Leu Val Leu Glu Asn
1 5 10 15

```
His Tyr Thr Asn Ser Asn Asn Asn Ala Pro Gly Thr Lys Gly Glu Glu
            20                  25                  30

Met Ser Ser Arg Val Gly Ile Leu Phe Lys Cys Leu Val Phe Asn Lys
        35                  40                  45

Asn Asn Tyr Lys Thr Gln Ser Lys Thr Arg Lys Tyr Gly Pro Tyr Pro
    50                  55                  60

Gly Lys Asn Lys Gln Pro Ile Glu Ala Val Leu Glu Glu Val Asn Ile
65                  70                  75                  80

Leu Asp Leu Leu Glu Asn Asp Phe Asn Xaa Ser Ile Ile Asn Met Phe
                85                  90                  95

Xaa Lys Leu Lys Glu Ala Arg Cys Gly Gly Ser Arg Leu
            100                 105
```

<210> 5571
<211> 101
<212> PRT
<213> Homo sapiens

<400> 5571

```
Asn Asp Asn Lys Gly Phe Arg Thr Ile Thr Ala Ser Ala Pro Gly Pro
  1               5                  10                  15

Thr Pro Ser Ser Glu Arg Arg Ser Val Val Gly Asn Met Leu Ser Asn
            20                  25                  30

Ser Val Thr Cys Tyr Arg Gly Ile Phe Gly Glu Arg Lys Ser Gln Cys
        35                  40                  45

Gly Lys Leu His Cys Cys Leu Ile Leu Ile Ala Thr Ala Thr Ser Thr
    50                  55                  60

Phe Ser Asn His His Pro Asp Ser Val Ser Ser His Gln His Gln Gly
65                  70                  75                  80

Glu Thr Leu Tyr His Gln Lys Asp Tyr Asn Leu Leu Lys Ala Gln Met
                85                  90                  95

Ile Ile Ser Ile Phe
            100
```

<210> 5572

<211> 40
<212> PRT
<213> Homo sapiens

<400> 5572
Asp Arg His Ala Leu Gln Ile Phe Leu Tyr Lys Ser Gly Ser Leu Phe
1 5 10 15

Pro Ile Val Leu Thr Leu Arg Leu Ser Val Gly Leu Pro Ile Arg Phe
20 25 30

Thr Ala Val Gln Val His Lys Met
35 40

<210> 5573
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5573
Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His
1 5 10 15

Ala Ser Ala Lys Ile Arg Thr Ala His Arg Arg Val Met Ile Leu Asn
20 25 30

His Pro Asp Lys Gly Gly Ser Pro Tyr Val Ala Ala Lys Ile Asn Glu
35 40 45

Ala Lys Asp Leu Leu Glu Thr Thr Thr Lys His
50 55

<210> 5574
<211> 51
<212> PRT
<213> Homo sapiens

<400> 5574
Ser Lys Asp Leu Val Phe Phe Thr Gln His Val Ser Arg Ile His Lys
1 5 10 15

Phe Tyr Cys Phe Ile Ala Val Ile Phe Ile Asp Val Tyr Phe Ile Val
20 25 30

Gly Leu Tyr Asn Ile Leu Leu Arg Asn Thr Tyr Ile Tyr Asn Lys Leu
35 40 45

Tyr Ile Phe
50

<210> 5575
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5575
Tyr Cys Ser Phe Ser Ser Phe Phe Ala Val Ala Ser Ser Ser Leu Val
1 5 10 15

Lys Thr Leu Lys Lys Asn Thr Ala Leu Pro Trp Glu Ile Ile Thr Leu
20 25 30

Pro Asn Thr Pro Leu Val Gly Asn Lys Arg Phe Tyr Gly Thr Xaa Xaa
35 40 45

Lys Lys Xaa Ser Thr Cys Pro Phe Phe Leu Pro Val
50 55 60

<210> 5576
<211> 72
<212> PRT
<213> Homo sapiens

<400> 5576
Ser Ser Gln Ile Lys Pro Pro Glu Ser Pro His Tyr Lys Ile Gln Ser
1 5 10 15

Tyr His Ala Ser Leu Pro Ser Val Tyr Lys Ile Cys Pro Ser Leu Gln
20 25 30

Leu Gly Glu Thr Asp Leu Gly Gln Thr Pro Val Ser Leu Leu Gly Cys
35 40 45

Leu Ala Ile Asn Phe Ser Leu Tyr Lys Thr Pro Val Leu Gln Cys Leu
50 55 60

Val Phe Gln Cys Glu Pro Gly Asn
65 70

<210> 5577
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5577
Val Leu Asn Lys Ser Leu Leu Tyr Glu Asn Lys Gln Tyr Phe Leu Tyr
1 5 10 15

Leu Ser Phe Gly Cys Ile Phe Pro Tyr Phe Val Ile Ser Phe Phe Leu
20 25 30

Thr Phe Tyr Xaa Xaa Ile Leu Thr Leu Phe Leu Ser Phe Ala Ser Val
35 40 45

Phe Pro Arg Arg Val Leu Trp Leu Lys Cys Ile Thr Cys Lys Ile Glu
50 55 60

<210> 5578
<211> 43
<212> PRT
<213> Homo sapiens

<220>